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arigoPLEX® Multiplex ELISA kits

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Frontier Research
Antibody panels and signature antibodies

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Complimentary Tool
GainData®
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About arigo

Have you noticed a **squirrel** hidden in the logo of arigo? arigo Biolaboratories uses the squirrel as a symbol and aim to provide quality antibodies, antibody duos/panels, and ELISA kits to facilitate scientific research. Our specialty **arigoPLEX®** product lines include **antibody panels** and **Multiplex ELISA kits**. Both are good for analyzing multiple key proteins or factors in popular research topics. **arigoPLEX®** offers an all-in-one solution to make research easy, efficient, and economic.

Excellence

Offer smart solutions (Ab duos / panels / ELISA kits) to facilitate experiments and research.

Nuts about antibodies

Only the best are offered.
Only the smartest are accomplished.

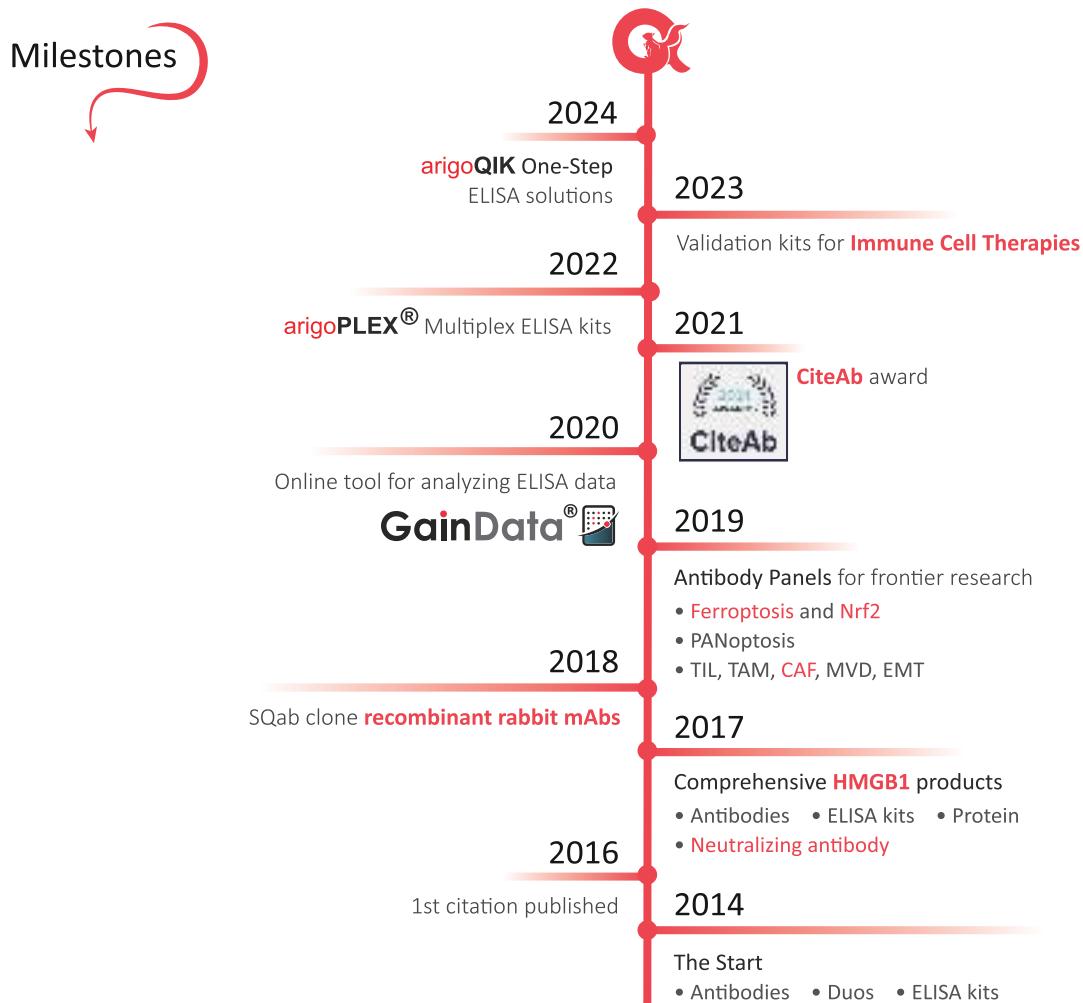


Responsiveness

Follow the research frontier and bring out cutting edge research solutions.

Quality

Extensively validate antibodies to provide specific and reliable products.



arigoPLEX®
Multiplex
ELISA KIT

Benefits

- Concurrent measurement of **4 or 8** factors
- High sensitivity at **pg/ml** ranges
- Single** detection reagent
- Regular ELISA process
- Validated on serum, plasma, and cell culture supernatant

Learn more



What's the difference between **arigoPLEX®** and Luminex assay?

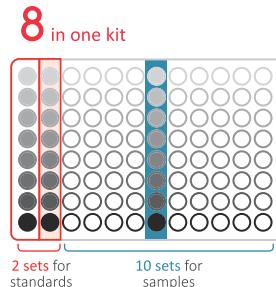
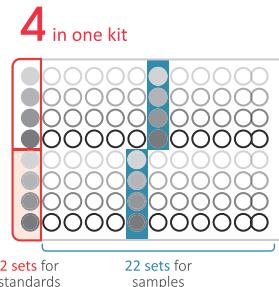
A: **arigoPLEX®** Multiplex ELISA kit is an ELISA-based immunoassay that allows for multiple detection of 4 or 8 factors simultaneously. Unlike Luminex which is useful to screen cytokines as much as possible, arigo's Multiplex ELISA kit is designed to validate **specific physiological effects** by measuring the key cytokines/factors such as inflammation and cell therapy-mediated cytotoxicity.

		Luminex
Equipment	ELISA reader	Specific instrument
Factors measured	Specific 4 or 8 factors	As much as possible
Ideal for	Validation	Screening



How many samples can be measured by **arigoPLEX®** Multiplex ELISA kit?

A: For 4-in-1 kit, two 12-well strips are available for each factor. One cytokine/factor is measured per well, and 4 wells as one set for one sample. Except 2 sets for standards, total 22 samples can be measured. For 8-in-1 kit, one 12-well strip is available for each factor and 8 wells as one set for each sample. Except 2 sets for standards, total 10 samples can be measured. **arigoPLEX®** Multiplex ELISA kit is ideal for small scale experiments in laboratory.



Immune cell therapies

Human CAR-T/CRS Multiplex ELISA Kit (ARG82969)

IL-2, IL-6, IL-10, IFN-γ

Human CTL/NK Activation Multiplex ELISA Kit (ARG83005)

Perforin, Granzyme B, IFN-γ, TNF-α

Human γδ T Cell Multiplex ELISA Kit (ARG83110)

Granzyme B, IFN-γ, IL-17, IL-8

Angiogenesis

Human Angiogenic Marker Multiplex ELISA Kit (ARG83510)

VEGF, bFGF, HGF, IL-6

Mouse Angiogenic Marker Multiplex ELISA Kit (ARG83471)

VEGF, bFGF, PDGF-BB, IL-6

Inflammation

Human Pro-inflammatory Cytokine Multiplex ELISA Kit (ARG82862)

IL-1 β , IL-6, TNF- α , IFN- γ

Human Inflammatory Cytokine Multiplex ELISA Kit (ARG83509)

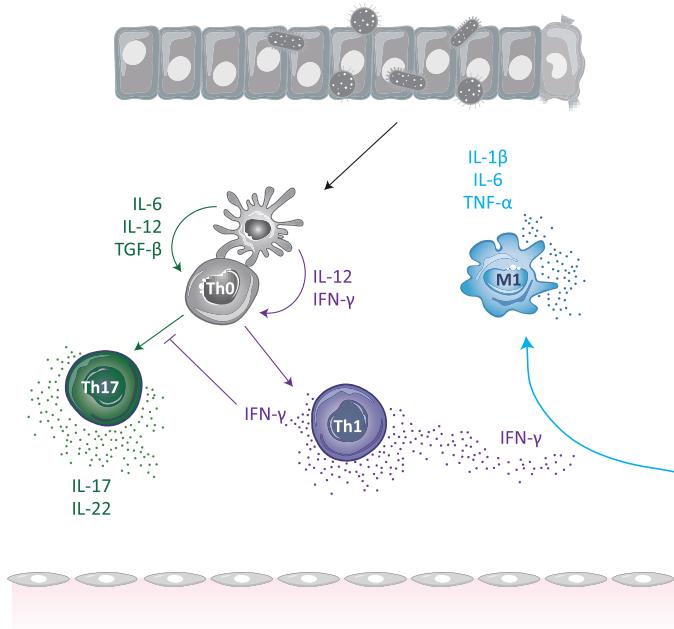
GM-CSF, MCP-1, IL-1 α , IL-1 β , IL-6, IL-8, TNF- α , IFN- γ

Mouse Pro-inflammatory Cytokine Multiplex ELISA Kit (ARG82842)

IL-1 β , IL-6, TNF- α , IFN- γ

Rat Inflammatory Cytokine Multiplex ELISA Kit (ARG83004)

IL-1 β , IL-6, TNF- α , IL-10



M1/M2 polarization

Human M1/M2 Cytokine Multiplex ELISA Kit (ARG83335)

IL-6, TNF- α , IL-4, IL-10

Human M1/M2/MDSC Cytokine Multiplex ELISA Kit (ARG83474)

GM-CSF, MCP-1, IFN- γ , TNF- α , IL-4, IL-6, IL-10, IL-12

Mouse M1/M2 Cytokine Multiplex ELISA Kit (ARG82913)

IL-6, TNF- α , IL-4, IL-10

Selected citations

Human Pro-inflammatory Cytokine Multiplex ELISA Kit (ARG82862)

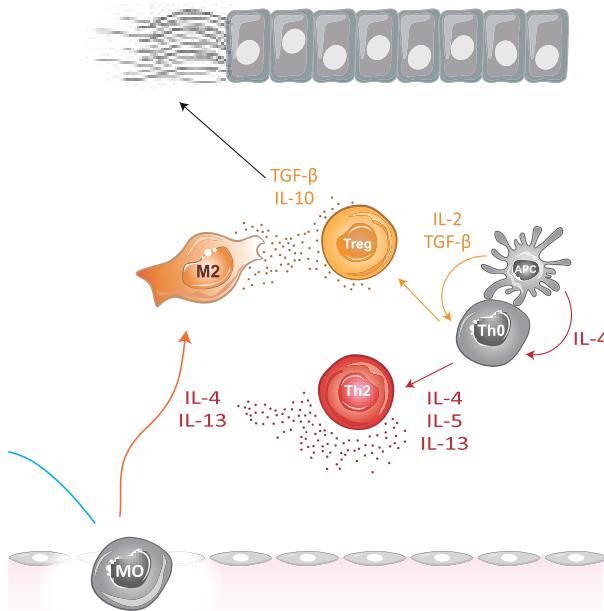
- Tsubouchi et al., (2024) Cell Rep Methods. 4(3):100737.
- Hwang et al., (2023) Korean J Physiol Pharmacol. 27(3):231-240.

Mouse Pro-inflammatory Cytokine Multiplex ELISA Kit (ARG82842)

- Kwak et al., (2022) Small. 18(15):e2200060.

Rat Inflammatory Cytokine Multiplex ELISA Kit (ARG83004)

- Pu et al., (2024) Biomed Pharmacother. 174:116490.



Selected citations

- Mouse M1/M2 Cytokines multiplex ELISA Kit (ARG82913)
- Hirayama and Takasu (2024) Int J Mol Sci. 25(2):1188.
- Kim et al., (2022) Biomaterials. 286:121578.
- Human CTL/NK activation Multiplex ELISA Kit (ARG83005)
- Liu et al., (2023) Oncogene. 42(49):3648-3654.

Fibrosis

Human Fibrotic Marker

Multiplex ELISA Kit (ARG83353)
IL-6, TNF- α , TGF- β 1, PDGF-BB

Rat Fibrotic Marker

Multiplex ELISA Kit (ARG83356)
IL-6, TNF- α , TGF- β 1, PDGF-BB

Mouse Fibrotic Marker

Multiplex ELISA Kit (ARG83349)
IL-6, TNF- α , TGF- β 1, PDGF-BB

Th1/Th2/Th17/Treg balance

Human Th1/Th2/Th17/Treg

Multiplex ELISA Kit (ARG83388)
IFN- γ , IL-4, IL-17, IL-10

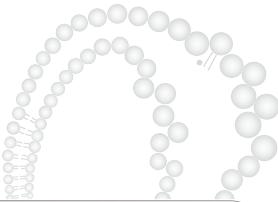
Mouse Th1/Th2/Th17/Treg

Multiplex ELISA Kit (ARG82914)
IFN- γ , IL-4, IL-17, IL-10

Human Th1/Th2/Th17/Treg

Multiplex ELISA Kit (ARG83516)
IL-2, TNF- α , IFN- γ , IL-4, IL-13,
IL-17, IL-22, IL-10

Oxidative stress responses

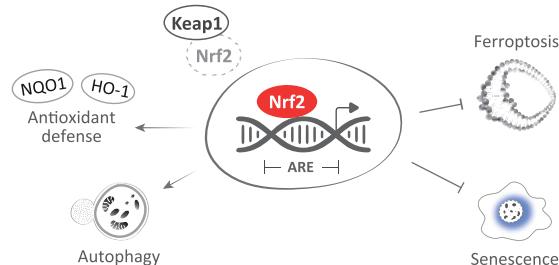


Keap1-Nrf2-ARE Antibody Panel (ARG30345)

Ideal to study the regulation of Nrf2-ARE pathway

- Includes **IP-available Nrf2 antibody**
- Includes Nrf2 regulator **Keap1 antibody**
- Includes Nrf2 targets **NQO1** and **HO-1** antibodies
- Works on **human** and **mouse** samples

Component	Reactivity	Application
Keap1 antibody	Hu, Ms, Rat	IHC-P, WB
Nrf2 antibody	Hu, Ms	ICC/IF, IHC-P, IP, WB
NQO1 antibody	Hu, Ms, Rat	FACS, ICC/IF, IP, WB
HO-1 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB

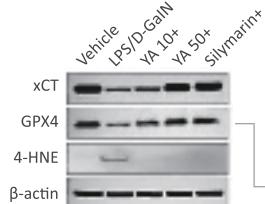


Ferroptosis/Oxytosis Antibody Panel (ARG30337)

Ideal to study ferroptosis in cancer cells and oxytosis in neuronal cells

- Includes **lipid peroxidation marker 4-HNE antibody**
- Includes **ferroptosis key proteins GPX4 and xCT antibodies**
- Works on **human, mouse, and rat** samples

Component	Reactivity	Application
GPX4 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB
xCT antibody	Hu, Ms, Rat	IP, WB
4-HNE antibody [12F7]	-	ELISA, ICC/IF, IHC-P, WB



Selected citations

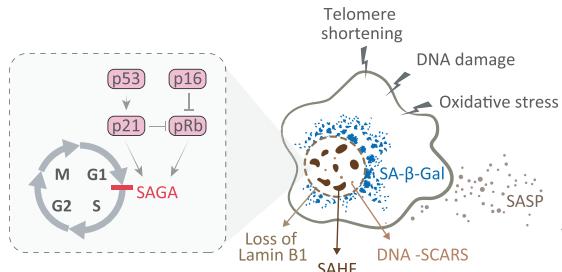
- Li et al., (2023) Ecotoxicol Environ Saf. 263:115309.
- Ryu et al., (2022) Antioxidants (Basel). 11(10):2052.
- Siregar et al., (2021) Mar Drugs. 19(11):614.

Senescence Marker Antibody Panel (ARG30340)

Ideal to detect senescence-associated cell cycle arrest

- Includes antibodies for studying p16^{INK4a}-Rb pathway
- Includes antibodies for studying p53-p21 pathway
- Works on **human, mouse, and rat** samples

Component	Reactivity	Application
p16 ^{INK4a} antibody	Hu, Ms, Rat	ICC/IF, IP, WB
Rb pSer807 antibody	Hu, Ms, Rat	IHC-P, WB
p53 antibody [Pab1801]	Hu, Ms, Rat	ChIP, ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB
p21 antibody	Hu, Ms, Rat	ICC/IF, WB

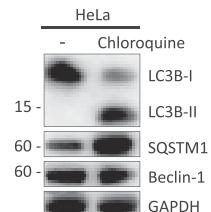


Autophagy Antibody Panel (ARG30321)

Ideal to study the regulation of autophagy

- Includes **autophagy markers** LC3B and SQSTM1 antibodies
- Includes **key regulator** Beclin-1 antibody
- Works on **human, mouse, and rat** samples

Component	Reactivity	Application
LC3B antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB
SQSTM1 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB
Beclin-1 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GAPDH antibody [SQab1878]	Hu, Ms, Rat, and more	FACS, ICC/IF, IHC-P, IP, WB



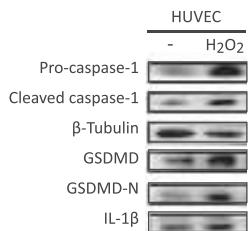
Pyroptosis & Inflammasomes

Pyroptosis Antibody Panel (ARG30330)

Ideal to detect canonical pyroptotic cell death in immune cells

- Includes antibodies against **Caspase-1**, **GSDMD** and **IL-1 β**
- Detects both **pro-** and **cleaved** forms of the key proteins
- Works on **human** and **mouse** samples

Component	Reactivity	Application
Caspase-1 antibody	Hu, Ms	ICC/IF, IHC-P, IP, WB
GSDMD antibody	Hu, Ms, Rat	ICC/IF, WB
IL-1 β antibody [SQab1748]	Hu, Ms	ELISA, FACS, ICC/IF, IHC-P, WB
β -Tubulin antibody [BT7R]	Hu, Ms, Rat, Ch, Mk, Rb	ELISA, ICC/IF, WB



Selected citations

Pyroptosis Antibody Panel (ARG30330)

- Yuan et al., (2022) Mol Med Rep. 25(6):214.

- Zhao et al., (2021) Sci Rep. 11(1):20558.

NLRP3 Inflammasome Antibody Panel (ARG30331)

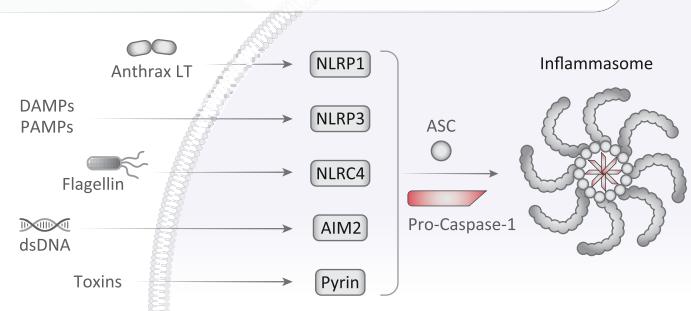
- Zhao et al., (2021) Sci Rep. 11(1):20558.

NLRP3 Inflammasome Antibody Panel (ARG30331)

Ideal to study NLRP3 inflammasome in human and mouse cells

- Includes key components **NLRP3**, **ASC** and **Caspase-1** antibodies
- Detects both **pro-** and **cleaved** forms of Caspase-1
- Works on **human** and **mouse** samples

Component	Reactivity	Application
NLRP3 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB
ASC antibody	Hu, Ms	WB
Caspase-1 antibody	Hu, Ms	ICC/IF, IHC-P, IP, WB
GAPDH antibody [6C5]	Hu, Ms, Rat, and more	ELISA, ICC/IF, IHC-Fr, WB



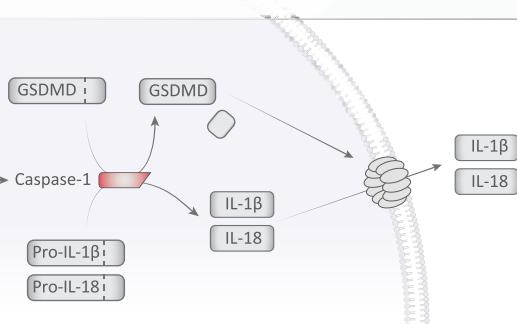


NLRC4 Inflammasome Antibody Panel (ARG30332)

Ideal to study NLRC4 inflammasome in human and mouse cells

- Includes key components **NLRC4**, **ASC** and **Caspase-1** antibodies
- Detects both **pro-** and **cleaved** forms of Caspase-1
- Works on **human** and **mouse** samples

Component	Reactivity	Application
NLRC4 antibody	Hu, Ms	ICC/IF, IHC-P, WB
ASC antibody	Hu, Ms	WB
Caspase-1 antibody	Hu, Ms	ICC/IF, IHC-P, IP, WB
GAPDH antibody [6C5]	Hu, Ms, Rat, and more	ELISA, ICC/IF, IHC-Fr, WB

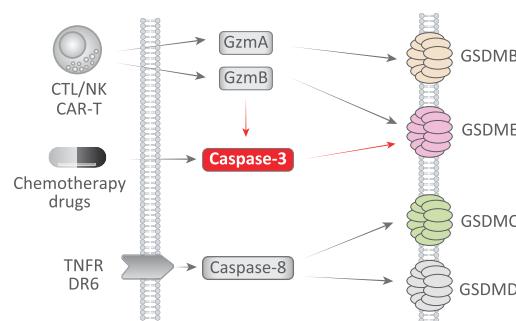


GSDME-mediated Pyroptosis Antibody Panel (ARG30343)

Ideal to study GSDME-mediated pyroptosis in tumor cells

- Detects both **pro-** and **cleaved** forms of Caspase-3
- Detects both **pro-** and **cleaved** forms of GSDME
- Includes **HMGB1** antibody for detecting lytic cell death

Component	Reactivity	Application
Caspase-3 antibody	Hu, Ms, Rat	ICC/IF, IHC, IP, WB
GSDME antibody	Hu	IP, WB
HMGB1 antibody [SQab1711]	Hu, Ms, Rat	ELISA, FACS, ICC/IF, IHC-P, WB



Necroptosis



Necrosome Antibody Panel (ARG30344)

Ideal to study necrosome assembly and necroptosis

- Includes necrosome components **RIP1**, **RIP3**, and **MLKL** antibodies
- Works on **human** and **mouse** samples

Component	Reactivity	Application
RIP1 antibody	Hu, Ms, Rat	ICC/IF, WB
RIP3 antibody	Hu, Ms, Rat	ELISA, ICC/IF, IHC-Fr, IHC-P, IP, WB
MLKL antibody	Hu, Ms	IHC-P, WB

Mouse Ripoptosome Antibody Panel (ARG30350)

Ideal to distinguish apoptosis and necroptosis

- Includes ripoptosome components **RIP1** and **Caspase-8** antibodies
- Detects necroptosis by **p-RIP1** and **p-RIP3** antibodies
- Detects both **pro-** and **cleaved** forms of **Caspase-8**

Component	Reactivity	Application
Caspase-8 antibody	Hu, Ms, Rat	IHC-P, WB
RIP1 antibody [SQab22276]	Ms	IHC-P, WB
RIP1 pSer166 antibody [YJY-1-5]	Hu, Ms, Rat	ICC/IF, IHC-Fr, IHC-P, IP, WB
RIP3 pSer232 antibody	Ms	WB

Highlight

RIP1 pSer166 antibody [YJY-1-5] (ARG66476)

- Rabbit mAb**
- Reactivity:** Hu, Ms, Rat
- Application:** ICC/IF, IHC-Fr, IHC-P, IP, WB



Selected citations

- Matsuoka and Tsujimoto (2023) Sci Rep. 13(1):20423.
- Wu et al., (2023) PeerJ. 11:e15551.
- Fan et al., (2022) Front Pharmacol. 13:884821.
- Wang et al., (2021) Nat Commun. 12(1):4826.
- Tao et al., (2020) Cell Death Differ. 28(4):1418-1433.

► Cuproptosis

Cuproptosis - Proteotoxic Stress Antibody Panel (ARG30354)

Ideal to examine the proteotoxic stress in cuproptosis process

- Includes **lipoylated proteins** DLAT and DLST antibodies
- Include **proteotoxic stress marker** HSP70 antibody
- Works on **human** and **mouse** samples

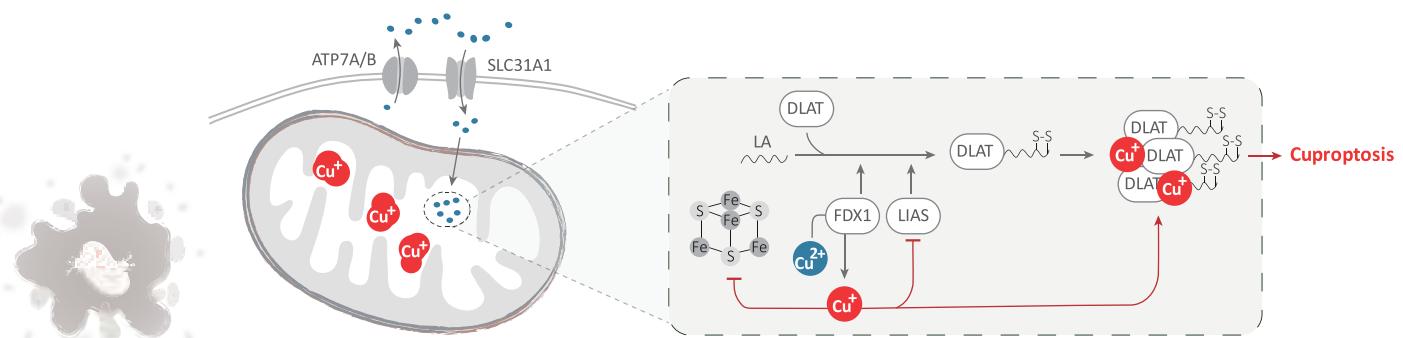
Component	Reactivity	Application
DLAT antibody	Hu, Ms	ICC/IF, IP, WB
DLST antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB
HSP70 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB

Fe-S Cluster Antibody Panel (ARG30355)

Ideal to evaluate the loss of Fe-S clusters in cuproptosis process

- Includes Fe-S clusters **FDX1, LIAS, ACO2**, and **POLD1** antibodies
- Works on **human** samples

Component	Reactivity	Application
FDX1 antibody	Hu	WB
LIAS antibody	Hu, Ms	WB
ACO2 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB
POLD1 antibody	Hu, Ms, Rat	ICC/IF, WB



Tumor microenvironment

CAF Marker Antibody Panel (ARG30347)

Ideal to examine the heterogeneity of cancer-associated fibroblasts (CAFs)

- Includes **mesenchymal** marker Vimentin antibody
- Includes **fibroblast** marker FSP-1 antibody
- Includes **myofibroblast** marker α -SMA antibody
- Includes **active fibroblast** marker FAP antibody
- Works on **human** and **mouse** samples

Component	Reactivity	Application
Vimentin antibody [SQab1721]	Hu, Ms	FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB
FSP-1 antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB
α -SMA antibody [SQab18108]	Hu, Ms, Rat, and more	FACS, ICC/IF, IHC-Fr, IHC-P, WB
FAP antibody	Hu, Ms, Rat	ICC/IF, IHC-P, WB

M1/M2/TAM Marker Antibody Panel (ARG30333)

Ideal to study macrophage polarization and identify M1, M2, and tumor-associated macrophages (TAMs)

- Includes **M0** marker CD68 antibody
- Includes **M1** marker iNOS antibody
- Includes **M2** markers CD163 and CD206 antibodies
- Good for **double staining**

Component	Reactivity	Application
CD68 antibody [KP1]	Hu, Rat	FACS, ICC/IF, IHC-P, WB
iNOS antibody	Hu, Ms, Rat	ICC/IF, IHC-Fr, IHC-P, IP, WB
CD163 antibody [SQab19148]	Hu	IHC-P
CD206 antibody [15-2]	Hu, Ms	FACS, ICC/IF, IHC-Fr, IP, WB





Tumor-infiltrating Lymphocyte Antibody Panel (ARG30334)

Ideal to identify the lymphocytes in tumor microenvironment

- Includes **general T cell** marker CD3 antibody
- Includes **cytotoxic T cell** marker CD8 antibody
- Includes **regulatory T cell** marker CD4 antibody
- Includes **B cell** marker CD20 antibody
- Outstanding IHC performance

Component	Reactivity	Application
CD3 antibody [SQab1713]	Hu	FACS, ICC/IF, IHC-P, IP, WB
CD8 antibody [SQab19146]	Hu	IHC-P
CD4 antibody [SQab1714]	Hu	FACS, IHC-P, IP, WB
CD20 antibody [SQab1719]	Hu	FACS, ICC/IF, IHC-P, IP

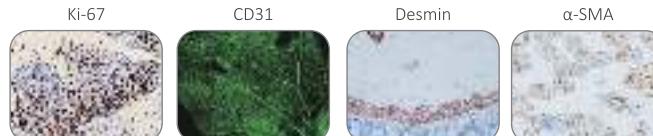
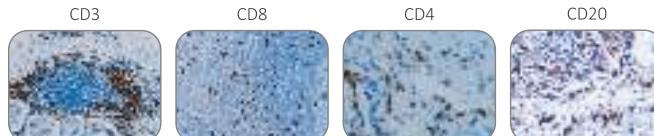


Microvascular Density Antibody Panel (ARG30327)

Ideal to examine angiogenesis in tumor tissues and xenograft

- Includes **proliferation** marker Ki-67 antibody
- Includes **endothelial cell** marker CD31 antibody
- Includes **pericyte** marker Desmin antibody
- Includes **smooth muscle cell** marker α -SMA antibody
- Outstanding IHC performance

Component	Reactivity	Application
Ki-67 antibody [SQab1897]	Hu	IHC-P
CD31 antibody	Hu, Ms, Rat, Pig	ICC/IF, IHC-Fr, IHC-P, WB
Desmin antibody [SQab1722]	Hu, Ms, Rat	IHC-P, WB
α -SMA antibody [SQab18108]	Hu, Ms, Rat, and more	FACS, ICC/IF, IHC-Fr, IHC-P, WB



Inflammation & Fibrosis

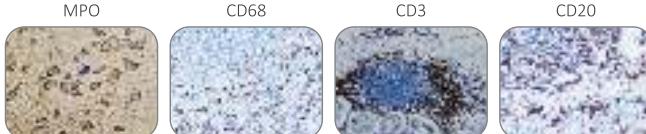


Human Inflammatory Cell Antibody Panel (ARG30325)

Ideal to stain inflammatory cells in human tissues

- Includes **neutrophil** marker MPO antibody
- Includes **macrophage** marker CD68 antibody
- Includes **T cell** marker CD3 antibody
- Includes **B cell** marker CD20 antibody
- Outstanding IHC performance

Component	Reactivity	Application
MPO antibody	Hu, Ms, Rat	IHC-P, WB
CD68 antibody [SQab1742]	Hu	FACS, IHC-Fr, IHC-P
CD3 antibody [SQab1713]	Hu	FACS, ICC/IF, IHC-P, IP, WB
CD20 antibody [SQab1719]	Hu	FACS, ICC/IF, IHC-P, IP



Mouse Inflammatory Cell Antibody Panel (ARG30326)

Ideal to stain inflammatory cells in mouse tissues

- Includes **neutrophil** marker Gr-1 antibody
- Includes **macrophage** marker F4/80 antibody
- Includes **T cell** marker CD3 antibody
- Includes **B cell** marker B220 antibody
- All rat mAbs for eliminating mouse-on-mouse background

Component	Reactivity	Application
Gr-1 antibody [RB6-8C5]	Ms	FACS, IHC-Fr, IHC-P, IP
F4/80 antibody [Cl:A3-1]	Ms, Rat	FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB
CD3 antibody [CD3-12]	Hu, Ms, more	FACS, ICC/IF, IHC-Fr, IHC-P, WB
B220 antibody [RA3-6B2]	Hu, Ms, Cat	FACS, ICC/IF, IHC-Fr, IHC-P, IP





Neuroinflammation Antibody Panel (ARG30324)

Ideal to study neuroinflammation in human and rodent samples

- Includes **microglial markers** Iba1 and CD68 antibodies
- Includes **astrocyte marker** GFAP antibody
- Good for **triple staining**
- Works on **human** and **rat** samples

Component	Reactivity	Application	Host
Iba1 antibody	Hu, Ms, Rat	ICC/IF, IHC-Fr, WB	Rabbit
CD68 antibody [KP1]	Hu, Rat	FACS, ICC/IF, IHC-P, WB	Mouse
GFAP antibody	Hu, Ms, Rat, and more	ELISA, FACS, ICC/IF, IHC-P, IHC-Fr, WB	Chicken

Iba1



CD68



GFAP



Myofibroblast / Fibrosis Antibody Panel (ARG30346)

Ideal to investigate the role of myofibroblasts in wound healing and fibrosis

- Includes **myofibroblast marker** α -SMA antibody
- Includes **fibrotic proteins** Collagen I and Fibronectin antibodies
- Good for **triple staining**
- Works on **human, mouse, and rat** samples

Component	Reactivity	Application	Host
α -SMA antibody [SQab18108]	Hu, Ms, Rat, and more	FACS, ICC/IF, IHC-Fr, IHC-P, WB	Rabbit
Collagen I antibody	Hu, Ms, Rat, and more	ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB	Goat
Fibronectin antibody	Hu, Ms, Rat	IHC-P, WB	Mouse

 α -SMA

Collagen I



Fibronectin



Total solutions for HMGB1 research

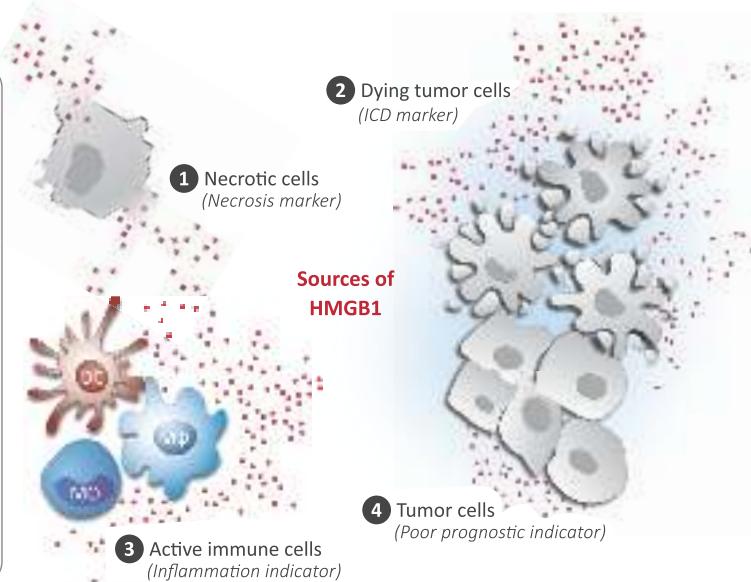
Quantification

HMGB1 ELISA Kits

Benefits

- HMGB1-specific
- Good for plasma, serum, cell culture supernatant, and cell/tissue lysate
- Works on **human, mouse, and rat** samples

Cat. No.	Reactivity			Sample			
	Hu	Ms	Rat	Plasma	Serum	Culture Sup.	Lysates
ARG81185	●				●		
ARG81310		●	●	●		●	●
ARG81351	●	●	●		●		



Selected citations

Mouse/Rat HMGB1 ELISA Kit (ARG81310)

- Molina-López et al., (2024) Nat Commun. 15(1):1096.
- Zhang et al., (2024) Nat Commun. 15(1):1118.
- Nikolos et al., (2022) Nat Commun. 13(1):1487.
- Kuai et al. (2022) Acta Pharm Sin B. 12(2):967-981.
- Wang et al., (2021) Nano Today. 37:101064.
- Liang et al., (2021) Chem Eng J. 425:131451.

Human HMGB1 ELISA Kit (ARG81185)

- Huang et al., (2024) Int Immunopharmacol. 127:111397.
- Yasuda et al., (2023) J Autoimmun. 142:103149.
- Hurtado-Navarro et al., (2023) Cell Rep Med. 4(12):101329.
- Jung et al., (2023) Biomaterials. 298:122127.
- Li et al., (2022) J Exp Clin Cancer Res. 41(1):74.
- Volchuk et al., (2020) Nat Commun. 11(1):4561.

Serum HMGB1 ELISA Kit (ARG81351)

- Liu et al., (2024) Adv Sci (Weinh). 11(3):e2305217.
- Luo et al., (2023) ACS Nano. 17(10):8966-8979.
- Yuan et al., (2023) Bioeng Transl Med. 8(6):e10576.
- Huang et al. (2022) Nano Today. 44:101500.
- Luo et al., (2022) J Nanobiotechnology. 20(1):228.
- Ogura et al., (2022) J Dermatol. 49(1):124-132.



Neutralization

HMGB1 Neutralizing antibody [SQab20175] (ARG66714)

Benefits

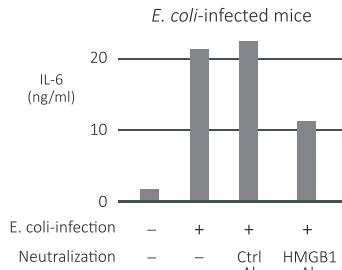
- *In vitro* & *In vivo* neutralizing effects
- Low endotoxin
- Works on **human** and **mouse** cells
- Good for ELISA, FACS, Neut, WB



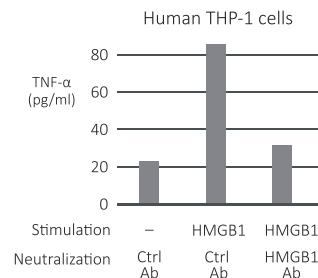
Selected citations

- Yin et al., (2024) Adv Mater. 36(13):e2309839.
- Zuo et al., (2023) Nat Commun. 14(1):5456.
- You et al., (2023) Virus Res. 338:199240.
- Xiao et al., (2023) Cell Tissue Res. 391(1):43-54.
- Wang et al., (2022) Front Immunol. 13:767630.
- Kam et al., (2021) Angiogenesis. 2021 Oct 6;1-23.

👉 *In vivo* neutralization



👉 *In vitro* neutralization

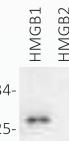


Detection

HMGB1 antibody [SQab1711] (ARG65863)

Benefits

- HMGB1-specific
- Good for ELISA, FACS, ICC/IF, IHC-P, WB
- Works on **human**, **mouse**, and **rat** samples

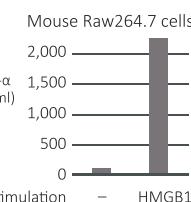
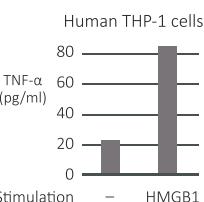


Stimulation

HMGB1 active protein (ARG70220)

Benefits

- Low endotoxin
- Works on **human** and **mouse** cells





SQab Clone Recombinant Rabbit mAbs

Benefits

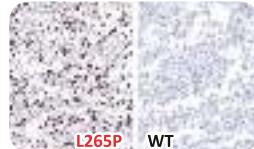
- Proprietary recombinant antibody technology
- Excellent specificity and sensitivity
- High consistency and reproducibility
- Outstanding IHC performance

Featured Antibodies

Claudin 18.2 antibody
[SQab22278] ([ARG67014](#))



MyD88 L265P antibody
[SQab30311] ([ARG67041](#))



PD-L1 antibody
[SQab1716] ([ARG65862](#))



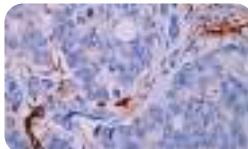
AR antibody
[SQab1729] ([ARG66207](#))



Brachyury antibody
[SQab22270] ([ARG66940](#))



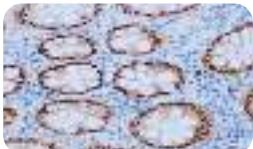
CD31 antibody
[SQab18116] ([ARG66342](#))



CD68 antibody
[SQab1742] ([ARG66253](#))



CDX2 antibody
[SQab1733] ([ARG66244](#))



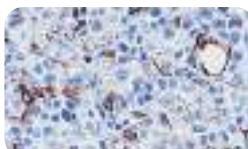
Cytokeratin HMW antibody
[SQab20224] ([ARG66811](#))



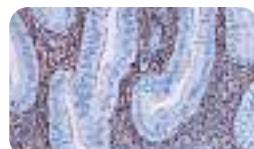
E-Cadherin antibody
[SQab1717] ([ARG66195](#))



Podoplanin antibody
[SQab19158] ([ARG66673](#))



α -SMA antibody
[SQab1735] ([ARG66246](#))



Vimentin antibody
[SQab1721] ([ARG66199](#))



► Collagen antibodies

Benefits

- Pre-adsorbed goat pAbs
- Good for IHC-Fr, IHC-P, ICC, WB, and more
- Works on patients and models with **connective tissue disorders**
- Ideal for triple immunofluorescence staining

Collagen I antibody (ARG21965)

Reactivity: Hu, Ms, Rat, Bv, Dog, Gpig, Hm, Pig, Rb, Sh
Application: ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB



Collagen II antibody (ARG20787)

Reactivity: Hu, Ms, Rat, Bv, Ch, Pig, Rb, Sh
Application: ELISA, ICC/IF, IHC-Fr, IHC-P, IP, WB



Collagen III antibody (ARG20786)

Reactivity: Hu, Ms, Rat, Bv, Ch, Dog, Hm, Pig, Rb
Application: ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, WB



Collagen IV antibody (ARG21968)

Reactivity: Hu, Ms, Rat, Bv
Application: ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB



► tdTomato & mCherry antibodies

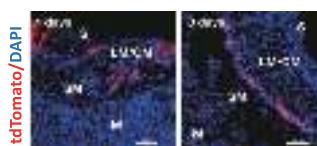
Benefits

- Goat pAbs
- Good for ICC/IF, IHC-Fr, IHC-P, and WB
- Excellent for enhancing red fluorescence in tissue sections
- Ideal for triple immunofluorescence staining



tdTomato antibody (ARG55724)

Application: ICC/IF, IHC-Fr, IHC-P, WB

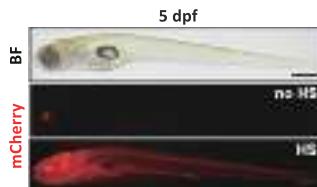


Selected citations

- Ribeiro and Crossan (2023) Nucleic Acids Res. 51(10):4791-4813.
- Tang et al., (2023) Sci Adv. 9(34):eadh9570.
- Fan et al., (2023) Cell Mol Gastroenterol Hepatol. 15(2):511-531.

mCherry antibody (ARG55723)

Application: ICC/IF, IHC-Fr, IHC-P, WB



Selected citations

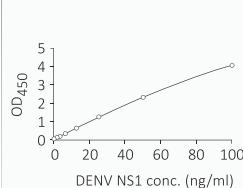
- Song et al., (2023) NPJ Regen Med. 8(1):20.
- Wei et al., (2023) Cell Rep. 42(7):112660.
- Cai et al., (2023) Cell Rep. 42(9):113028.
- Zhang et al., (2022) Cell Rep. 39(1):110596.

Dengue Virus antibodies

Dengue Virus NS1 ELISA Kit (ARG81357)

Benefits

- Early:** NS1 is detectable from day 1-9 post onset
- Easy:** Regular ELISA process
- Fast:** ~2.5 hr assay time
- Flexible:** Good for plasma, serum, and cell culture supernatant
- Reliable:** Detection of 4 DENV serotypes
- Specific:** No cross-reactivity with Zika virus



Selected citations

- Sitthisuwanakul et al., (2024) Biosens Bioelectron. 254:116218.
- Wei et al., (2023) Microbiol Spectr. 11(1):e0358622.
- Pan et al., (2021) PLoS Pathog. 17(7):e1008603.
- Lin et al., (2019) EBioMedicine. 48:425-441.
- Sanaki et al., (2019) FASEB J. 33(12):13866-13881.

Dengue Virus NS1 antibody [SQab1501] (ARG65660)

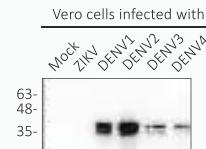
Mouse mAb

ELISA, FACS, ICC/IF, IHC-P, WB



Selected citations

- Pan et al., (2023) Signal Transduct Target Ther. 8(1):194.
- Shi et al., (2023) Pharmaceuticals. 16(2):263.
- Li et al., (2021) Front Immunol. 12:744880.
- Pan et al., (2021) PLoS Pathog. 17(7):e1008603.
- Su et al., (2020) FASEB J. 34(6):7283-7294.



DENV	Reactivity	Application	Cat. No.
NS1 antibody [SQab1501]	4 serotypes	ELISA, ICC/IF, WB	ARG65660
NS3 antibody [SQab19171]	DENV2	ELISA, ICC/IF, WB	ARG66682
NS4B antibody [SQab19172]	DENV2/3	ELISA, ICC/IF, WB	ARG66683
NS5 antibody [SQab19173]	DENV1/2/4	ELISA, ICC/IF, WB	ARG66684

DENV	Reactivity	Application	Cat. No.
E protein antibody [SQab19170]	DENV2	ELISA, ICC/IF, WB	ARG66681
prM antibody [SQab19168]	4 serotypes	ELISA, ICC/IF, WB	ARG66679
M protein antibody [SQab19169]	DENV1/2/3	ELISA, ICC/IF, WB	ARG66680
C protein antibody [SQab19167]	DENV2/4	ELISA, ICC/IF, WB	ARG66678

► Zika Virus antibodies

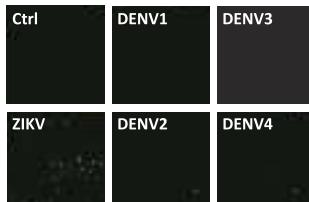
NS1 antibody [SQab1609] (ARG65781)

Mouse IgG1

ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, WB

Selected citations

- Lu et al., (2023) J Virol. 97(5):e019822.
- Borges-Vélez et al., (2022) Cells. 11(22):3627.



NS1 antibody [SQab1610] (ARG65782)

Mouse IgG2a

ELISA, FACS, ICC/IF, WB

Selected citations

- Lee et al., (2017) Anal Chem. 89(23):12743-8.



Envelope protein antibody [SQab1749] (ARG66286)

Mouse IgG1

ELISA, FACS, ICC/IF, IHC-P, WB

Selected citations

- Zhou et al., (2020) Virus Res. 278:197882.
- Chen et al., (2020) J Exp Med. 217(9):e20192152.

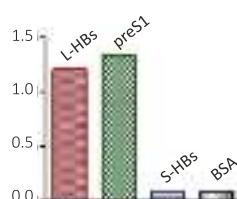


► Hepatitis B Virus antibodies

HBV preS1 antibody [SQab1506] (ARG65665)

Mouse mAb

ELISA, ICC/IF, IHC-P, WB



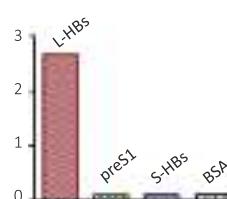
Selected citations

- Tu et al., (2019) Dig Dis Sci. 64(11):3203-3214.

HBV preS2 antibody [SQab1507] (ARG65666)

Mouse mAb

ELISA, ICC/IF, IHC-P, WB



Selected citations

- Yato et al., (2023) Virus Res. 323:199014.
- Liu et al., (2018) PLoS Pathog. 14(5):e1007085.

HBV	Application	Cat. No.
HBsAg antibody [SQab1504]	ELISA, ICC/IF, IHC-P	ARG65663
HBV preS1 antibody [SQab1506]	ELISA, ICC/IF, IHC-P, WB	ARG65665
HBV preS2 antibody [SQab1507]	ELISA, ICC/IF, IHC-P, WB	ARG65666
HBeAg antibody [HBe3]	ELISA	ARG10305
HBCAg antibody [H6F5]	ELISA, WB	ARG10303
HBXAg antibody [3F6-G10]	ELISA, IHC-Fr, IHC-P, WB	ARG22716

Anti-Human immunoglobulins

- Isotype/subtype specific**

IgA, IgD, IgG and subtypes, IgM, IgE, and the pre-adsorbed ones

- Unconjugated and conjugates available**

HRP, AP, Biotin, beta-Gal, FITC, PE, TRITC, and Texas Red/APC/Cy5

- Immunoglobulin fragment specific**

Hinge, F(ab')2, Fd, FLC, pFc', Fab, Fc, and light chains

- Multiple host species**

Goat, mouse, and rabbit

Pre-adsorbed Goat pAbs

	Unconjugated	HRP	AP	Biotin	FITC	PE	TRITC	Texas Red
IgA	ARG21909	ARG21911	ARG21674	ARG21912	ARG21910	ARG21676	ARG21673	ARG21675
IgA, F(ab')2	ARG21913			ARG21915	ARG21914			
IgD	ARG21657	ARG21661	ARG21660	ARG21663	ARG21658	ARG21664	ARG21659	ARG21662
IgD, F(ab')2	ARG21665			ARG21667	ARG21666			
IgG	ARG21906	ARG23887	ARG21669	ARG21905	ARG20568	ARG23888	ARG21668	ARG21671
IgG, F(ab')2	ARG21908	ARG22371	ARG21672	ARG21907				
IgG, Fd	ARG24054	ARG24056	ARG24055		ARG24057			
IgG, Fc	ARG24073	ARG23874	ARG24074	ARG24081	ARG24076	ARG24082		
IgM	ARG21644	ARG21648	ARG21647	ARG21650	ARG21645	ARG21651	ARG21646	ARG21649
IgM, F(ab')2	ARG21652	ARG21654		ARG21655	ARG21653			
k light chain	ARG24085	ARG21958	ARG24048	ARG24062	ARG23962	ARG24063	ARG24059	ARG24061
λ light chain	ARG23892	ARG23893	ARG24065	ARG24067	ARG23965	ARG24068	ARG24064	ARG24066
IgE	ARG24030	ARG24034	ARG24031	ARG24032	ARG24033			
IgA/IgG/IgM	ARG23886	ARG23877	ARG23881	ARG23884	ARG23879	ARG23885	ARG23880	ARG23883

Mouse mAbs

	Unconjugated	HRP	AP	Biotin	FITC	PE	APC / Cy5
IgA1, Fc	ARG21838	ARG21841	ARG21840	ARG21842	ARG21839	ARG21843	
IgA2, Fc	ARG21844	ARG21847	ARG21846	ARG21848	ARG21845	ARG21849	
IgD	ARG21807	ARG21810	ARG21809	ARG21811	ARG21808	ARG21812	ARG42307
IgE	ARG65416				ARG63031	ARG53948	
IgE, Fc	ARG21850	ARG21853	ARG21852	ARG21854	ARG21851		
IgG	ARG66786						
IgG, Fab	ARG63035				ARG53949		
IgG, Fc	ARG23938	ARG23933	ARG21816	ARG21817	ARG23934	ARG21818	ARG23935
IgG1, Fc	ARG21949	ARG21950	ARG21825	ARG21827		ARG21826	
IgG1, Hinge	ARG21819	ARG21822	ARG21821	ARG21823	ARG21820	ARG21824	
IgG2, Fc	ARG21954	ARG21952	ARG21830	ARG21882	ARG21955	ARG21831	
IgG2, Fd	ARG21832	ARG21835	ARG21834	ARG21836	ARG21833	ARG21837	
IgG3, Hinge	ARG21870	ARG21873	ARG21872	ARG21874	ARG21871	ARG21875	
IgG4	ARG10224						
IgG4, Fc	ARG21864	ARG21867	ARG21866	ARG21868	ARG21865	ARG21869	
IgG4, pFc'	ARG21858	ARG21861	ARG21860	ARG21862	ARG21859	ARG21863	
IgM	ARG21801	ARG21804	ARG21803	ARG21805	ARG21802	ARG21806	
IgM, Fc	ARG63040						
k light chain	ARG42387		ARG42395		ARG42397	ARG42399	ARG42394
k FLC	ARG10227						
λ light chain	ARG63053	ARG21856	ARG21855	ARG21857	ARG63054	ARG53955	ARG53954

ELISA Kits

Product (Cat. No.)	Sensitivity
Human IgA ELISA Kit (ARG81182)	0.78 ng/ml
Human IgD ELISA Kit (ARG81153)	0.03 ng/ml
Human IgE ELISA Kit (ARG80140)	0.2 ng/ml

Product (Cat. No.)	Sensitivity
Human IgG ELISA Kit (ARG80135)	0.4 ng/ml
Human IgG4 ELISA Kit (ARG80175)	8 ng/ml
Human IgM ELISA Kit (ARG80947)	0.16 ng/ml

Rabbit mAbs

Human IgA antibody
[SQab20241] (ARG66829)



Human IgD antibody
[SQab21243] (ARG66875)



Human IgG antibody
[E20-V] (ARG10569)



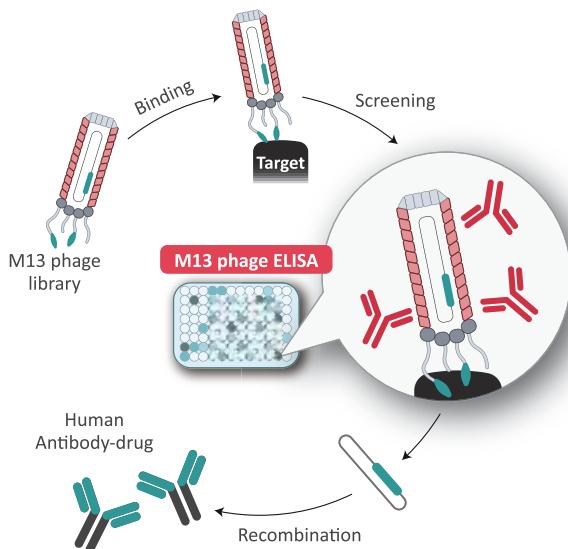
Human IgM antibody
[SQab21244] (ARG66876)



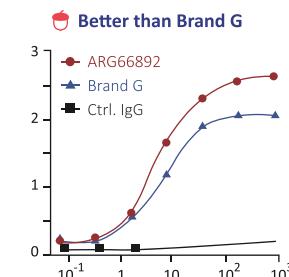
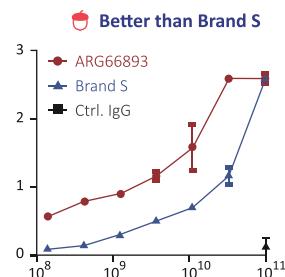
M13 antibodies

M13 phage display is a powerful tool for the development of therapeutic antibodies. A specific and sensitive M13 antibody is the key to make drug discovery efficiently. **arigo** offers specific and sensitive M13 antibodies which show a better performance compare with competitors' in ELISA. It is the best solution to facilitate the drug screening by M13 phage display.

Featured Antibodies



M13 g8p antibody [SQab21250] (ARG66892, ARG66893)



Product	Application	Cat. No.
M13 g8p antibody [SQab21250]	ELISA, FACS	ARG66892
M13 g8p antibody [SQab21250] (HRP)	ELISA	ARG66893
M13 g3p antibody [E1]	ELISA, FACS, IHC-Fr	ARG23605
M13 g3p antibody [E1] (Biotin)	ELISA, FACS	ARG23868

► Active Proteins

- Multiple expression systems
- Diverse tag or fusion choices
- High purity & low endotoxin

Chemokines

	Human	Mouse
IL-8	ARG70031	
CCL2/MCP-1	ARG70420	ARG70432
CCL3/MIP-1α	ARG70476	ARG70433
CCL4/MIP-1β	ARG70422	ARG70434
CXCL1/GROα	ARG70038	ARG70435
CXCL2/MIP-2	ARG70423	ARG70436
CXCL3/GROγ	ARG70424	ARG70437
CXCL4	ARG70425	
CXCL5	ARG70426	ARG70438
CXCL6	ARG70427	
CXCL7	ARG70428	ARG70439
CXCL9	ARG70429	ARG70441
CXCL10	ARG70039	ARG70442
CXCL11	ARG70430	ARG70443
CXCL12	ARG70140	ARG70198
CXCL13	ARG70431	
CXCL16		ARG70444

Cytokines

	Human	Mouse
IL-1α	ARG70042	ARG70151
IL-1β	ARG70028	ARG70152
IL-1RA	ARG70044	ARG70153
IL-2	ARG70029	ARG70154
IL-3	ARG70046	ARG70155
IL-4	ARG70047	ARG70156
IL-5	ARG70048	ARG70157
IL-6	ARG70030	ARG70158
IL-7	ARG70050	ARG70159
IL-9	ARG70052	ARG70160
IL-10	ARG70032	ARG70161
IL-11	ARG70054	ARG70162
IL-12 p35	ARG70055	ARG70163
IL-12 p40	ARG70056	ARG70164
IL-12 p70	ARG70382	
IL-13	ARG70057	ARG70165
IL-15	ARG70058	ARG70166
IL-17A	ARG70033	ARG70167
IL-17B	ARG70060	ARG70395
IL-17F	ARG70061	ARG70168
IL-18	ARG70473	ARG70169
IL-19	ARG70063	ARG70170
IL-20	ARG70064	ARG70171
IL-21	ARG70065	ARG70172
IL-22	ARG70066	ARG70173
IL-23 p19	ARG70067	
IL-24	ARG70068	ARG70174
IL-25	ARG70069	ARG70175
IL-26	ARG70070	
IL-27		ARG70179
IL-27B	ARG70071	ARG70176
IL-28B	ARG70073	ARG70178
IL-31	ARG70075	
IL-32	ARG70076	
IL-33	ARG70077	ARG70180
IL-34	ARG70078	ARG70181
IL-36α	ARG70079	ARG70182
IL-36β	ARG70080	
IL-36γ	ARG70081	ARG70183
IL-36RN	ARG70082	
IL-37	ARG70083	
TNF-α	ARG70034	ARG70041
TNF-β	ARG70380	ARG70400
IFN-α	ARG70385	ARG70399
IFN-$\beta 1a$		ARG70226
IFN-γ	ARG70035	ARG70372
IFN-λ	ARG70074	
IFN-$\lambda 2$	ARG70072	ARG70177
IFN-$\omega 1$	ARG70386	
GM-CSF	ARG70037	ARG70192
M-CSF	ARG70133	ARG70193
LIF		ARG70407



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linear regression



Slope
calculation



Exportable
(Excel, PDF)



EC50/IC50
calculation



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but also assay kit



How to use GainData®



Selected citations

- Tang et al., (2022) Nat Med. 28(7):1372-1376. (IF 87.2)
- Ma et.al., (2022) Nature. 603(7899):159-165. (IF 69.5)
- Zhang et al., (2022) Nat Metab. 4(10):1369-1401. (IF 20.8)
- Ayloo et al., (2022) Neuron. 110(10):1641-1655. (IF 17.2)
- de Souza et al., (2024) Brain Behav Immun. 116:193-202. (IF 15.1)
- Le Gall et al., (2022) J Immunother Cancer. 10(4):e004309. (IF 12.5)
- Hwang et al., (2024) J Control Release. 365:703-715. (IF 11.5)
- Cary et al., (2023) Part Fibre Toxicol. 20(1):16. (IF 10)
- Feng et al., (2023) Environ Pollut. 329:121614.
- Piotrowska et al., (2022) Front Immunol. 13:832924.
- Wei et al., (2023) Microbiol Spectr. 11(1):e0358622.
- Mildenberger et al., (2023) LWT. 173:114254.



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