p16INK4a Recombinant Monoclonal Antibody [BLR318M]

Rabbit Recombinant Monoclonal

Purified		RefSeq ID	NP_000068.1
Catalog No.	A700-318	Uniprot ID	P42771
Lot No.	1	GeneID	1029

APPLICATIONS WB, IP, IHC, ICC, Flow Cyt

SPECIES REACTIVITY Human

AMOUNT 100 µl (50+ tests)

CONCENTRATION 500 µg/ml

STORAGE/SHELF LIFE 2 - 8°C / 1 year from date of receipt

PHYSICAL STATE Liquid

BUFFER Phosphate Buffered Saline (PBS) with 0.1% BSA and 0.09% Sodium Azide

ISOTYPE IgG

CLONE # BLR318M

ORIGIN USA

PRODUCTION PROCEDURES Recombinant antibody was purified from cell culture supernatant.

Immunogen was a peptide representing a region between residue 106 and the C-terminus of human Cyclin-dependent kinase inhibitor 2A isoform p16INK4a using the numbering given in entry NP_000068.1 (Gene ID 1029).

APPLICATIONS Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot	1:1,000
Immunoprecipitation	12 µl/mg lysate
Immunohistochemistry	1:100 to 1:500. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Immunocytochemistry	1:100 to 1:500. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE cell sections.
Flow Cytometry	Fixed in 4% formaldehyde and permeabilized with 90% methanol. 0.5 µl per 1 x 10^6 cells.

APPLICATION NOTES All western blot analysis is performed using 5% Milk-TBST for blocking and as antibody diluent. Primary antibody is incubated overnight.

Western blots of cell lysates are performed using Goat anti-Rabbit IgG Heavy and Light Chain Antibody (A120-101P).

Western blots of immunoprecipitates are performed using Goat anti-Rabbit Light Chain HRP Conjugate (A120-113P) with 5% Normal Pig Serum (S100-020) added to the blocking buffer.

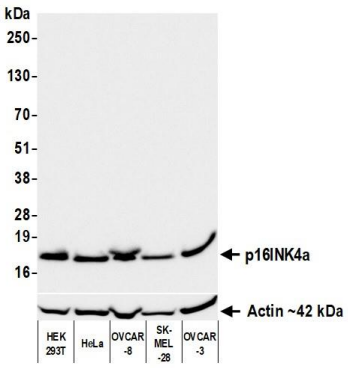
IHC HUMAN CONTROLS Breast Carcinoma, Ovarian Carcinoma, A-2058 Cells, HEK293T Cells, HeLa Cells, OVCAR-8 Cells, SUP-T1 Cells

ADDITIONAL INFO https://www.fortislife.com/p/A700-318

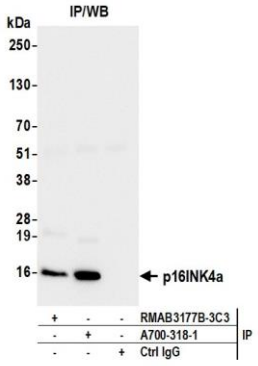
Use the link above to view SDS, a current list of citations, and other product specific information.

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.

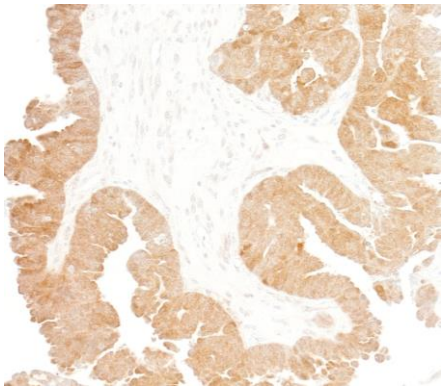
Michael Spencer, PhD Date: May 1, 2024



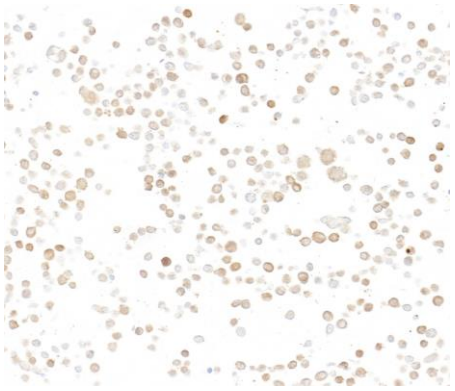
Detection of human p16INK4a by western blot. *Samples:* Whole cell lysate (50 µg) from HEK293T, HeLa, OVCAR-8, SK-MEL-28, and OVCAR-3 cells prepared using NETN lysis buffer. *Antibody:* Rabbit anti-p16INK4a recombinant monoclonal antibody [BLR318M] (A700-318 lot 1) used at 1:1000. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-101P). *Detection:* Chemiluminescence with an exposure time of 3 seconds.



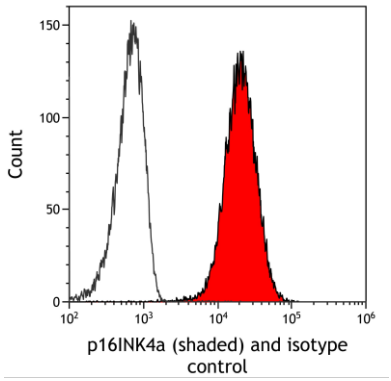
Detection of human p16INK4a by western blot of immunoprecipitates. *Samples:* Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. *Antibodies:* Rabbit anti-p16INK4a recombinant monoclonal antibody [BLR318M] (A700-318 lot 1) used for IP at 12 µl/mg lysate. p16INK4a was also immunoprecipitated by a second antibody against a different epitope of p16INK4a (RMAB3177B-3C3). For blotting immunoprecipitated p16INK4a, A700-318 was used at 1:1000. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



Detection of human p16INK4a by immunohistochemistry. *Sample:* FFPE section of ovarian carcinoma. *Antibody:* Rabbit anti-p16INK4a recombinant monoclonal antibody [BLR318M] (A700-318). *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).



Detection of human p16INK4a by immunocytochemistry. *Sample:* FFPE section of HEK293T cells. *Antibody:* Rabbit anti-p16INK4a recombinant monoclonal antibody [BLR318M] (A700-318). *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).



Detection of human p16INK4a (shaded) in HeLa cells by flow cytometry. *Antibody:* Rabbit anti-p16INK4a recombinant monoclonal antibody [BLR318M] (A700-318) or isotype control (unshaded). *Secondary:* DyLight® 650-conjugated goat anti-rabbit IgG (A120-101D5).