

SARS-CoV-2 ELISpot Human IFN- γ Kit

Product Details

Application

The Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Enzyme-Linked ImmunoSpot (ELISpot) Human Kit is a highly sensitive method used to detect and quantify individual cells that secrete IFN- γ after stimulation with the ImmuneSelect SARS-CoV-2 Peptide Pool. This assay is utilized in immunology to monitor cellular immune responses at the single-cell level and reliably detects and measures IL-2 secretion by stimulated effector cells.

Description

Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) is the causative agent of COVID-19, a global pandemic that has resulted in millions of deaths and significant social and economic disruption. The virus primarily affects the respiratory system but can also cause a range of severe complications to multiple organ systems, from mild respiratory illness to severe pneumonia, acute respiratory distress syndrome (ARDS), and multi-organ failure. Sometimes it can lead to chronic effects after acute infection (Long COVID).

Early detection, via antigen or PCR tests, had been critical during the emergency phase of the pandemic, allowing for isolation of infected individuals, contact tracing, and treatment interventions. As the virus turns endemic, accurate diagnosis is now essential for better for researchers to understand the epidemiology of the virus, identifying new variants, and guiding vaccine development and deployment strategies

Product Specifications

Product	ViraxImmune SARS-CoV-2 ELISpot Human IFN- γ kit
Application	ELISpot
Analyte	IFN- γ
Reactivity	Human
Specificity	Human IFN- γ .
Storage	Store plates and reagents between 2 and 8°C. Peptide pool vial must be stored at -20 °C or below.
Shelf life	18 months from date of receipt.

Kit content

Peptide pools	ImmuneSelect SARS-CoV-2 (100 peptides covering the immunodominant epitopes)
Plate	ELISpot plate precoated with IFN- γ capture antibody
Detection mAb	Biotinylated recombinant IFN- γ antibody

Enzyme conjugate	Streptavidin-ALP (Alkaline Phosphatase)
Substrate	BCIP/NBT Ready-to-use solution
Blocking agent	Bovine Serum Albumin (BSA)