

29-1009: Anti-SARS-CoV-2 Spike Protein S1, mAb (Rec,blocking) (Clone: Covi-1) (Azide free)

Clonality :	Monoclonal
Clone Name :	Covi-1
Application :	Functional Assay,ELISA,WB
Uniprot ID :	P0DTC2
Alternative Name :	2019-nCoV Spike Protein S1
Isotype :	Human IgG1
Immunogen Information :	Recombinant SARS-CoV-2 Spike Protein S1 receptor binding domain.

Description

This is a Recombinant Human antibody

Coronaviruses (CoVs) are enveloped non-segmented positive-sense single-stranded RNA viruses and can infect respiratory, gastrointestinal, hepatic and central nervous system of human and many other wild animals. Recently, a new severe acute respiratory syndrome β -coronavirus called SARS-CoV-2 (or 2019-nCoV) has emerged, which causes an epidemic of acute respiratory syndrome (called coronavirus human disease 2019 or COVID-19).

SARS-CoV-2 shares 79.5% sequence identity with SARS-CoV and is 96.2% identical at the genome level to the bat coronavirus BatCoV RaTG133, suggesting it had originated in bats. SARS-CoV-2 contains 4 structural proteins, including Envelope (E), Membrane (M), Nucleocapsid (N) and Spike (S), which is a transmembrane protein, composed of two subunits S1 and S2. The S1 subunit contains a receptor binding domain (RBD), which binds to the cell surface receptor Angiotensin-Converting Enzyme 2 (ACE2) present at the surface of epithelial cells, causing mainly infection of human respiratory cells.

Product Info

Amount :	100 μ g
Purification :	$\geq 98\%$ (SDS-PAGE)
Content :	1mg/ml. Liquid. In PBS.
Storage condition :	Short Term Storage +4°C. Long Term Storage -20°C. Avoid freeze/thaw cycles. Stable for at least 1 year after receipt when stored at -20°C.

Application Note

ELISA Binding Assay;
Functional Application: Blocking;
Western Blot: Works only in non-denatured conditions (1:1000).

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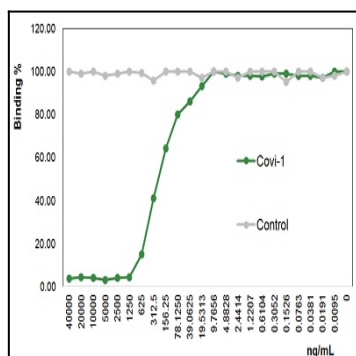


Figure 1: Binding of human ACE2 to the Spike protein of SARS-CoV-2 is inhibited by the antibody SARS-CoV-2 Spike Protein S1, mAb (rec.) (blocking) (Clone: Covi-1).

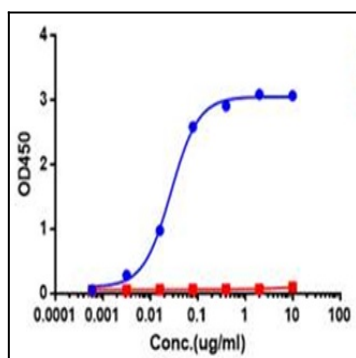


Figure 2: ELISA binding assay with SARS-CoV-2 S1 Protein (RBD) (rec.) (His) using anti-SARS-CoV-2 Spike Protein S1, mAb (rec.) (Clone: Covi-1) (blue line) and an unrelated antibody as negative control (red line)