

Datasheet

Elite Anti-SARS-CoV-2 Spike (S1) Monoclonal Antibody, Clone COS1 α

Product Name	Elite Anti-SARS-CoV-2 Spike (S1) Monoclonal Antibody, Clone COS1 α
Catalogue Number	BSV-S1-01
Pack Size	25 μ g (Sample size)/0.1mg/1mg
Concentration	1 mg/mL
Clone, Isotype	COS1 α , IgG1 kappa
Format	IgG Monoclonal Antibody sterile in PBS
Tested Applications	Western Blot & ELISA

Description:

Purified mouse monoclonal antibody (IgG) recognising the SARS-CoV-2 Spike Glycoprotein (S1) of SARS-CoV-2.

Product Details:

Origin: SARS-CoV-2 Spike Glycoprotein (S1) (HEK293), aa 1-674

Immunogen: Full-Length S1 Spike protein region (F/L S1)

Purification: Protein G

Host: Mouse

Fusion partner: SP2/0 Mouse Myeloma

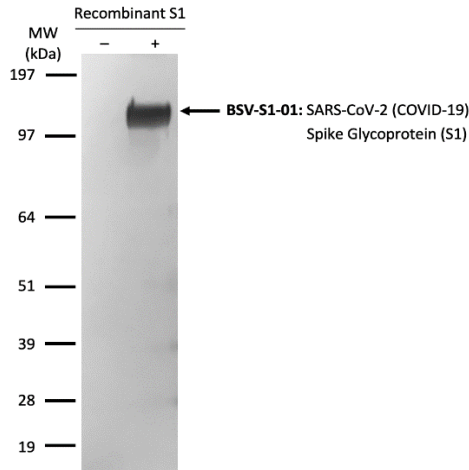
Formulation: 1 mg/ml, sterile in PBS, pH 7.4

Shipping: 4°C

Storage: -20°C to -80°C. Avoid repeated freezing and thawing.

Production Capacity: 10's grammes/month

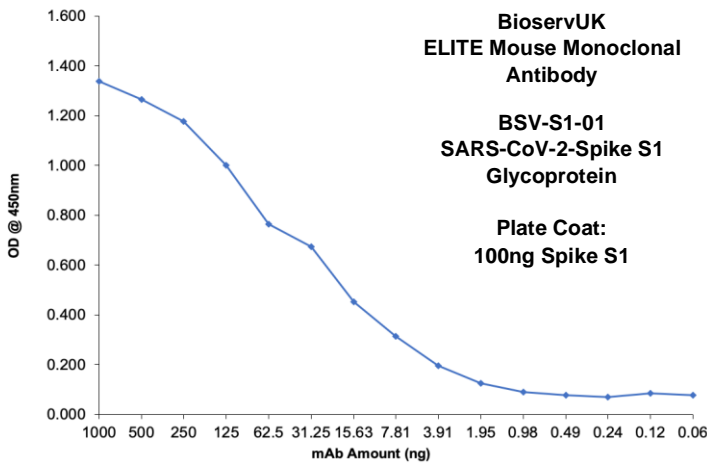
Applications:



BSV-S1-01 Western Blot Image

Recombinant S1 protein (2µg) from COVID-19 (produced in HEK293 T cells) were separated by 10% SDS-PAGE, and the membrane was blotted with BSV-S1-01 Elite Anti-SARS-CoV-2 (COVID-19) Spike Glycoprotein (S1) antibody diluted at 1:500 from a 1 mg/ml sample. The alkaline phosphatase conjugated anti-mouse IgG antibody diluted at 1:2000 was used to detect the primary antibody.

Dilution used: 1:500



BSV-S1-01 ELISA: Titration

ELISA showing binding of antibody BSV-S1-01 to immobilized SARS-CoV-2 Spike S1 Glycoprotein. Goat Anti-Mouse IgG (Fc specific)-HRP antibody diluted at 1:2000 was used to detect the primary antibody.

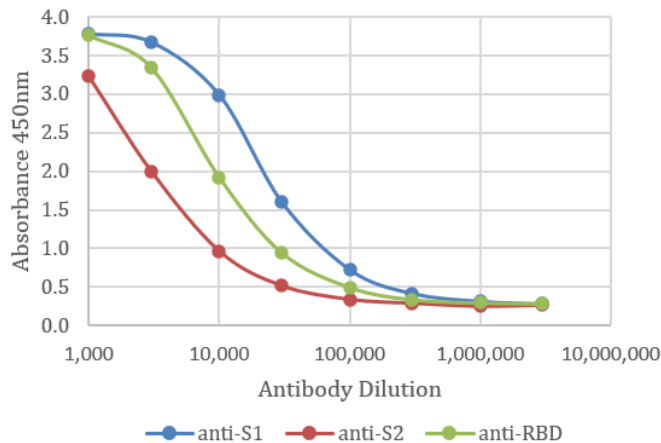
BSV-S1-01 LoD: <10ng SARS-CoV-2 Spike S1 Glycoprotein

Final Subclone	S1	CCHF	SARS	RBD	MERS	S2	Nucleo
BSV-S1-01	1.564	0.049	0.058	0.059	0.113	0.051	0.064

BSV-S1-01 ELISA: Specificity

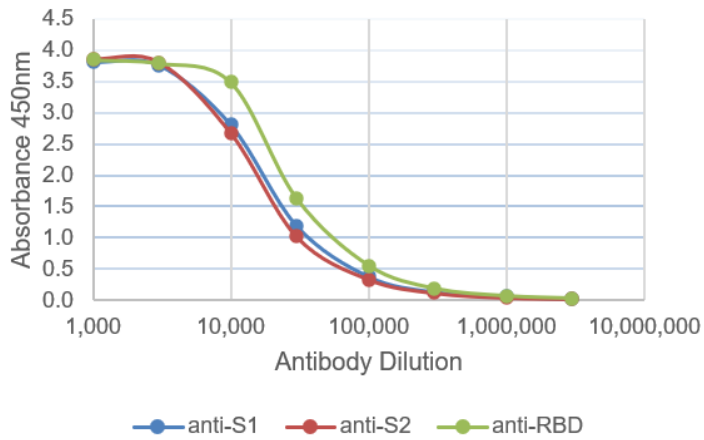
ELISA showing specificity of antibody BSV-S1-01 to immobilized SARS-CoV-2 Spike S1 Glycoprotein. SARS-CoV-2 Spike S2 Glycoprotein, SARS-CoV-2 Spike Glycoprotein S1 Receptor Binding Domain (S1-RBD) and SARS-CoV-2 Nucleocapsid Protein were not detected. Related proteins, MERS Spike Glycoprotein (S1) and SARS Spike Glycoprotein (S1), were not detected along with unrelated CCHF Gc Protein. Goat Anti-Mouse IgG (Fc specific)-HRP antibody diluted at 1:2000 was used to detect the primary antibody.

Trimeric Spike Antigen – the only Native, Wild-type Trimeric SARS-CoV-2 Spike Antigen on the market (BSV-COV-PR-32). It has the potential to screen against a range of related Human Coronavirus proteins (OC43, 229E, NL63, HKU1 etc).



Elite SARS-CoV-2 Antibodies ELISA

Elite Anti-SARS-CoV-2 Spike (S1) Monoclonal Antibody (BSV-S1-01) binding to Trimeric Spike Antigen (BSV-COV-PR-32) (2µg/mL diluted in HEPES/NaCl/LMNG, Maxisorp ELISA Plates)



Elite SARS-CoV-2 Antibodies ELISA

Elite Anti-SARS-CoV-2 Spike (S1) Monoclonal Antibody (BSV-S1-01) binding to Trimeric Spike Antigen (BSV-COV-PR-32) (2µg/mL diluted in Bicarbonate pH 9.6, Maxisorp ELISA Plates)