

## Datasheet

### Elite Anti-SARS-CoV-2 Spike (S1-RBD) Monoclonal Antibody, Clone CORBD $\alpha$

Product Name	Elite Anti-SARS-CoV-2 Spike (S1-RBD) Monoclonal Antibody, Clone CORBD $\alpha$
Catalogue Number	BSV-RBD-01
Pack Size	25 $\mu$ g (Sample Size)/0.1mg/1mg
Concentration	1 mg/mL
Clone, Isotype	CORBD $\alpha$ , 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 Receptor Binding Domain (S1-RBD) region 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

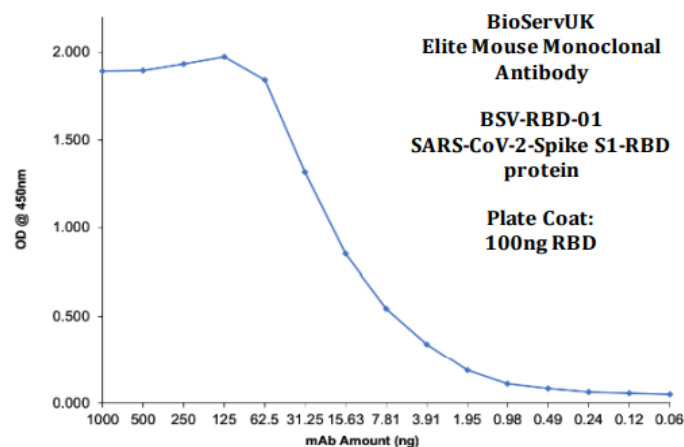
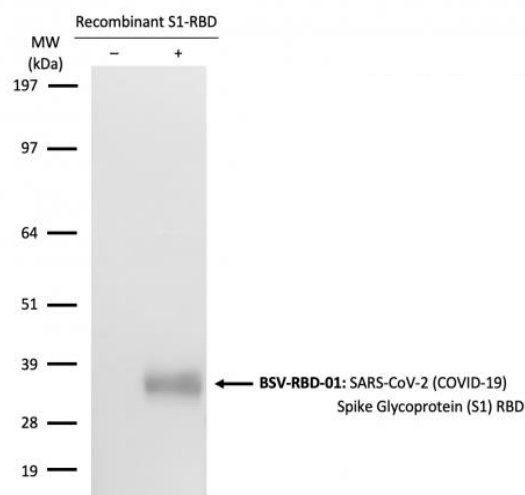
**Formulation:** 1 mg/ml, sterile in PBS, pH 7.4

**Shipping:** 4°C

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

**Production Capacity:** 10's grammes/month

## Applications



### BSV-RBD-01 Western Blot Image

Recombinant S1-RBD protein (2 $\mu$ g) from COVID-19 (produced in HEK293 T cells) were separated by 10% SDS-PAGE, and the membrane was blotted with BSV-RBD-01 Elite Anti-SARS-CoV-2 (COVID-19) Spike Glycoprotein (S1) RBD 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-RBD-01 ELISA: Titration

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

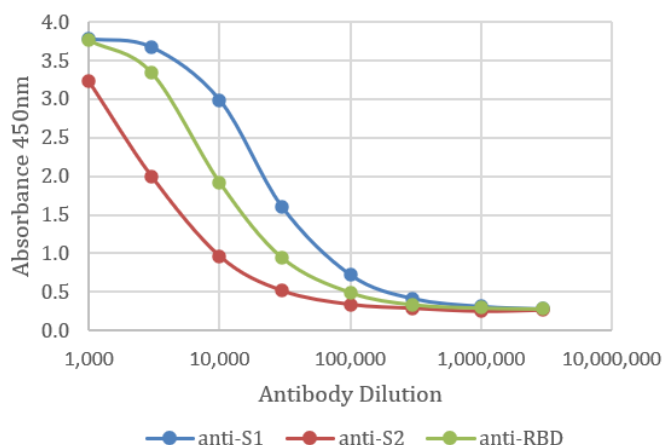
**BSV-RBD-01 LoD:** <10ng SARS-CoV-2 Spike S1-RBD protein

Final Subclone	S1	CCHF	SARS	RBD	MERS	S2	Nucleo
BSV-RBD-01	1.2566	0.0474	0.07	2.396	0.094	0.052	0.0538

### BSV-RBD-01 ELISA: Specificity

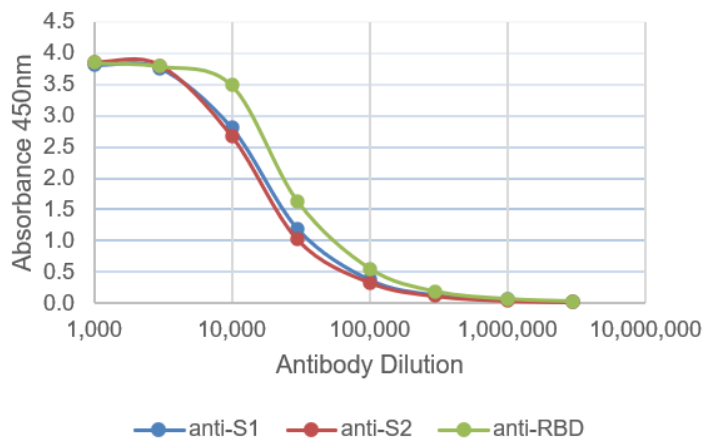
ELISA showing specificity of antibody BSV-RBD-01 to immobilized SARS-CoV-2 Spike S1 Glycoprotein and SARS-CoV-2 Spike Glycoprotein S1 Receptor Binding Domain (S1-RBD). SARS CoV-2 Spike S2 Glycoprotein and SARS-CoV-2 Nucleocapsid protein were not detected. Related proteins, MERS Spike Glycoprotein (S1) 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-RBD) Monoclonal Antibody (BSV-RBD-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-RBD) Monoclonal Antibody (BSV-RBD-01) binding to Trimeric Spike Antigen (BSV-COV-PR-32) (2µg/mL diluted in Bicarbonate pH 9.6, Maxisorp ELISA Plates)