Datasheet

Anti-Spike (RBD) Antibody_BSV-COV-AB-46

Description:

BioServUK offers a series of different monoclonal antibodies for the detection of the Spike protein from SARS-CoV-2. All antibodies come from hybridoma cell lines that were generated by immunization with the recombinant full-length Spike protein (S) or the receptor-binding domain (RBD).

This antibody has been validated by ELISA and is specifically directed against an epitope that is located on the RBD. Additionally, ELISAs with directly coated antigens proved that this antibody also binds to Spike protein B.1.1.7 and different RBD variants (B.1.1.7, B.1.1.28.1, B.1.1.7 E484K and B.1.351).

It is also recommended and independently tested for use in sandwich ELISA assays.

All antibodies are produced exclusively under serum-free conditions from hybridoma and purified through one-step purification with Protein-A affinity chromatography.

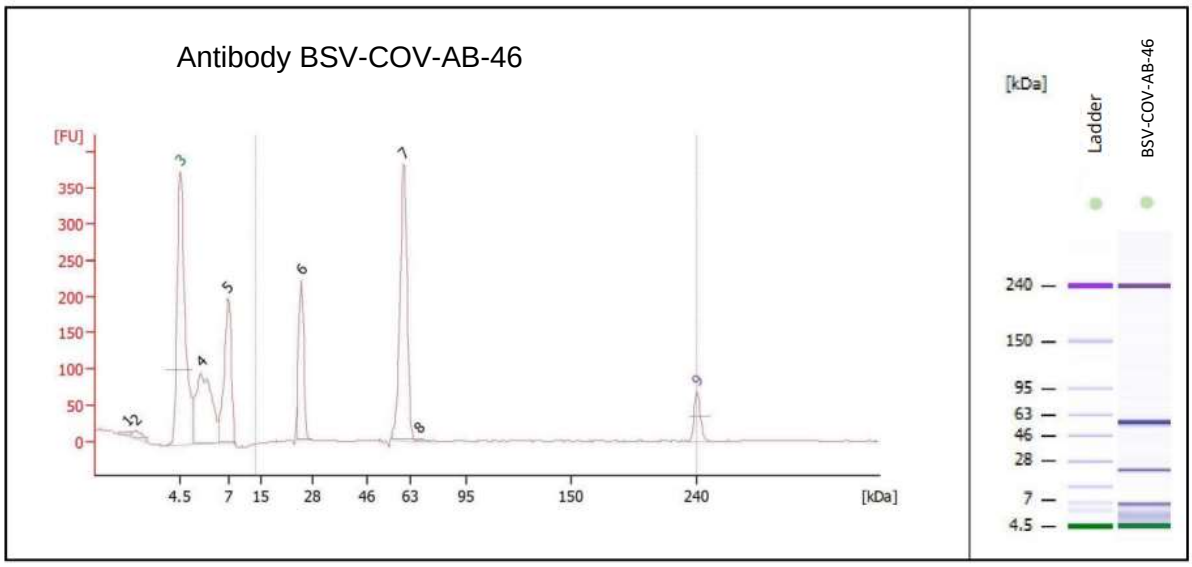
Product Code:	BSV-COV-AB-46
Host:	Mouse
Clonality:	Monoclonal
Isotype:	IgG
Subclass:	mIgG1κ
Formulation:	Liquid, PBS, pH 7.4, 0.2 µm sterile filtered
Concentration:	≥ 0.5 mg/ mL
Purity:	≥ 90% (via analytical CGE under reducing conditions)
Conjugate:	Unconjugated
Specificity:	S (tested for: Wuhan and B.1.1.7) RBD (tested for: Wuhan, B.1.1.7, B.1.1.28.1, B.1.1.7 E484K and B.1.351)

The product is for research use or for further manufacturing only.

For UK, Europe and ROW orders:
Calibre Scientific UK
Unit 5A, R-Evolution @
The Advanced Manufacturing Park
Selden Way, Rotherham
S60 5XA
+44 114 224 2257
info@bioservuk.com

For Americas Orders:
Anatrace
434 West Dussel Drive
Maumee, OH 43537
+1 800 252 1280
customerservice@anatrace.com

Purity (analytical CGE, under reducing conditions):



Peak	Size [kDa]	% of Total	Observations
1	1.7	0.0	
2	2.2	0.0	
3	4.5	0.0	Lower Marker
4	5.5	0.0	System Peak
5	7.0	0.0	System Peak
6	25.0	Peak Value 1	Light Chain
7	60.0	Peak Value 2	Heavy Chain
8	67.3	0.5	
9	240.0	0.0	Upper Marker

Summation of peak values 1 and 2 results in a purity of ≥ 90%

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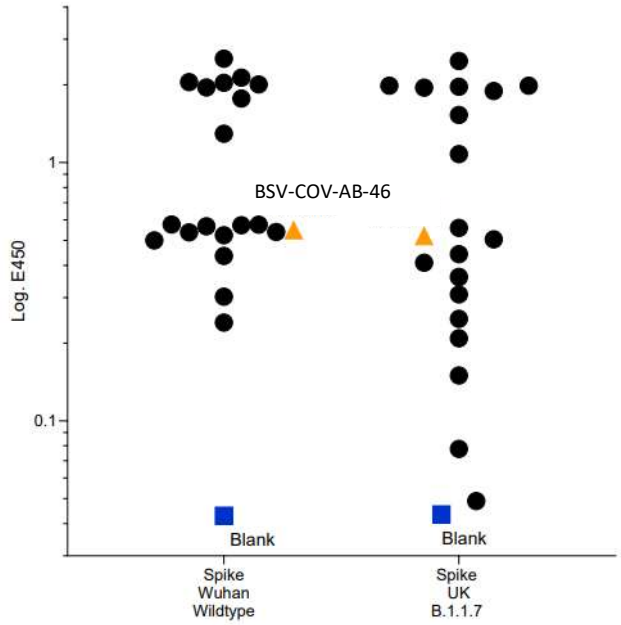
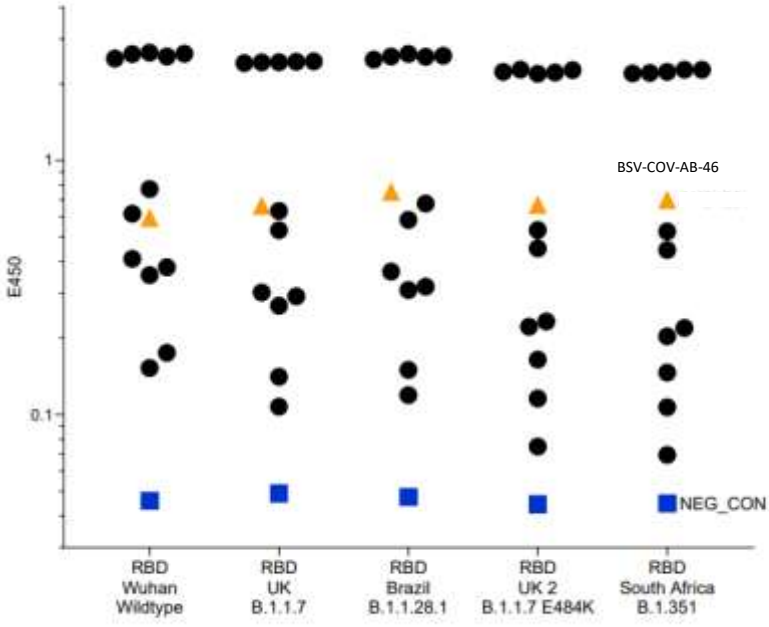
Binding activity to SARS-CoV-2 Spike protein and receptor-binding domain variants (ELISA):



Binding activity of BSV-COV-AB-46 to coated SARS-CoV-2 Spike protein (Wuhan origin vs. B.1.1.7) in comparison to 19 other monoclonal mouse hybridoma antibodies targeting the Spike protein.

Bound antibodies were detected using anti-mouse-IgG antibodies conjugated to HRP in an in-house SARS-CoV-2 IgG ELISA.



Binding activity of BSV-COV-AB-46 to coated different SARS-CoV-2 receptor binding domain variants (RBD, Wuhan, B.1.1.7, E484K and B.1.351) in comparison to 12 other monoclonal mouse hybridoma antibodies targeting the RBD and a negative control antibody (NEG_CON).

Bound antibodies were detected using anti-mouse-IgG antibodies conjugated to HRP in an in-house SARS-CoV-2 IgG ELISA. The negative control is a monoclonal mouse hybridoma antibody which does not bind the RBD of SARS-CoV-2.

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