Datasheet

Anti-Spike (S1) Recombinant, Chimeric Antibody

Description:

BioServUK offers a series of different monoclonal antibodies for the detection of the Spike protein from SARS-CoV-2. In addition to hybridoma cell antibodies, BioServUK now offers recombinant, chimeric antibodies, containing mouse variable domains (VL+VH) with human IgG1 (CH) and kappa (CL) constant domains.

The variable sequences of the antibody are identical to sequences of hybridoma cell line antibodies BSV-COV-AB-47 and BSV-COV-AB-48, which were generated by mouse immunization with recombinant full-length SARS-CoV-2 Spike protein (S).

This antibody has been validated by ELISA and is specifically directed against an epitope that is located within the S1-subunit but outside the receptor-binding domain (RBD).

The recombinant antibodies are produced under serum-free conditions in human embryonic kidney, HEK293 cells and purified through one-step purification with Protein-A affinity chromatography.

Product Code:	BSV-COV-AB-41, BSV-COV-AB-55
Host:	Mammalian, HEK
Clonality:	Monoclonal
Isotype:	Human IgG
Subclass:	hIgG1k
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
Binding units traceable to WHO Standard (20/136):	30127 +/- 843 BAU/mg1

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

[1] BAU= binding antibody units. Determined using the first WHO International Standard for anti-SARS-CoV-2 immunoglobulin (20/136) on the directly coated, recombinant, wild-type form of the SARS-CoV-2 Spike Protein in an in-house ELISA.

For UK, Europe and ROW orders:
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Selden Way, Rotherham
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+44 114 224 2257
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For Americas Orders:
Anatrace
434 West Dussel Drive
Maumee, OH 43537
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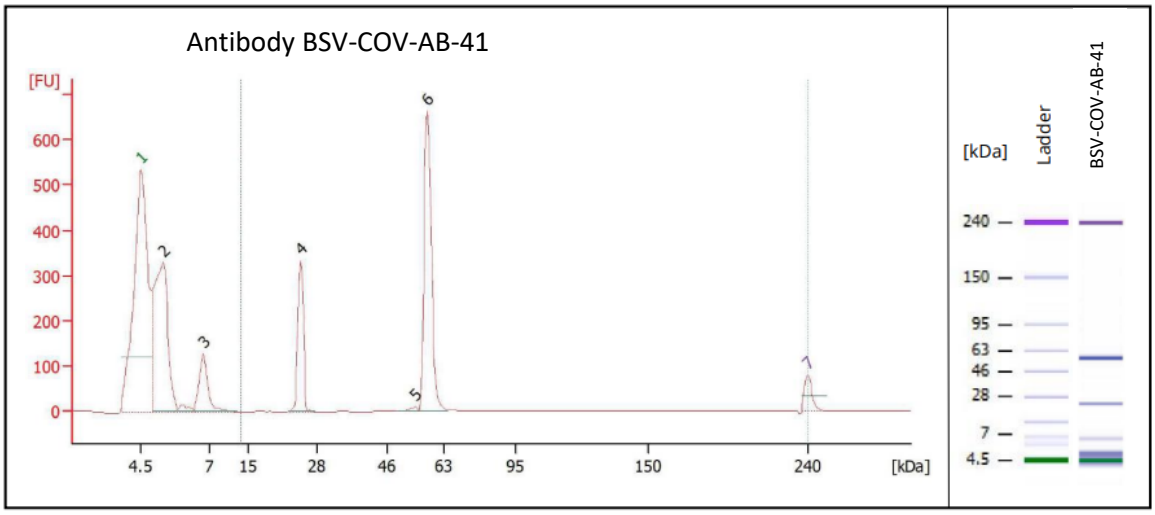
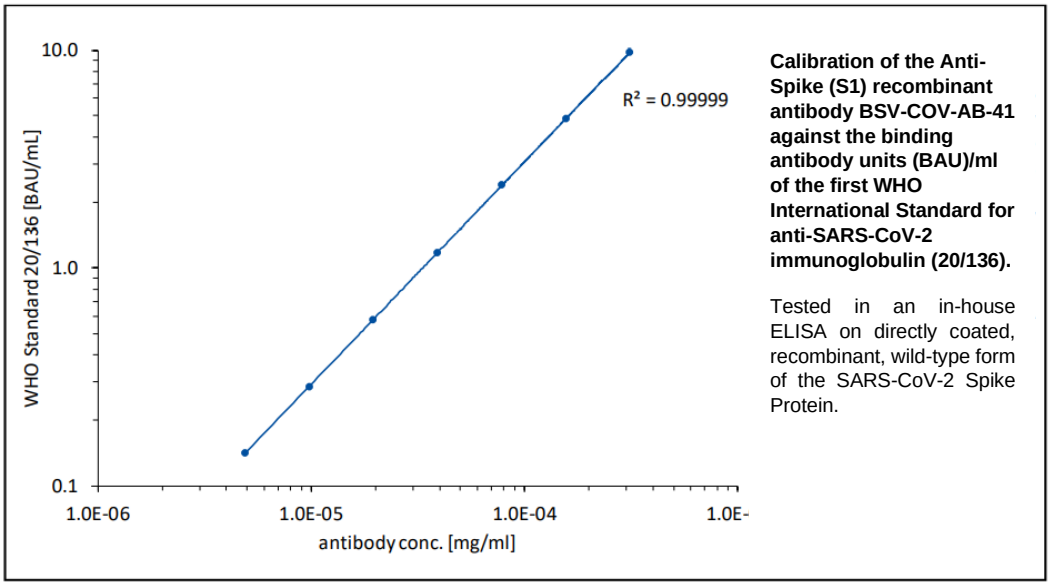
Purity (analytical CGE, under reducing conditions):



Peak	Size [kDa]	% of Total	Peak Identification
1	4.5	0.0	Lower Marker
2	5.3	0.0	System Peak
3	6.8	0.0	System Peak
4	24.9	Peak Value 1	Light Chain
5	54.6	1.1	unknown
6	58.1	Peak Value 2	Heavy Chain
7	240.0	0.0	Upper Marker

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

Calibration Curve:



Calibration of the Anti-Spike (S1) recombinant antibody BSV-COV-AB-41 against the binding antibody units (BAU)/ml of the first WHO International Standard for anti-SARS-CoV-2 immunoglobulin (20/136).

Tested in an in-house ELISA on directly coated, recombinant, wild-type form of the SARS-CoV-2 Spike Protein.

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