

Anti-Spike Protein [CV1] Bulk Size Ab02018-10.7-BT

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This reformatted human antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human F(ab)2, AbFab2™ His-Tagged, Lambda

Clone Number: CV1

Alternative Name(s) of Target: S-protein; SARS-CoV2; SARS Coronavirus 2; SARS-CoV-2; SARS CoV 2; 2019-nCoV; Severe acute respiratory syndrome coronavirus 2; Spike protein; S protein; SARS-CoV 2 S protein; S glycoprotein; E2; Peplomer protein; SARS-CoV2

UniProt Accession Number of Target Protein: P0DTC2

Published Application(s): neutralize, therapeutic, ELISA, FC

Published Species Reactivity: SARS Coronavirus 2

Immunogen: The original antibody was generated by isolating B-cells from the peripheral blood mononuclear cells (PBMCs) of SARS CoV2 infected patients, after the serum neutralizing activity was confirmed.

Specificity: This antibody binds the ectodomain encoded by amino acid residues 1-1208 of the SARS CoV 2 spike protein.

Application Notes: This antibody is recommended for diagnosis and/or treatment of SARS CoV 2 or 2019-nCoV. CV1 binds an epitope outside the SARS CoV 2 RBD was found to be weakly neutralizing (IC50=15µg/ml). ELISA was used to confirm the binding of SARS CoV 2 positive serum samples to the entire ectodomain and the receptor binding domain of the spike protein. Specific binding of the mAb to SARS CoV 2 to ectodomain was confirmed with biolayer interferometry. Phycoerythrin labelled mAb was used to stain 293E cells transfected with wild type SARS CoV 2 and were analysed by flow cytometry (Seydoux et al., 2020).

Antibody First Published in: Seydoux et al. Characterization of neutralizing antibodies from a SARS-CoV-2 infected individual [PMID:32511342](#)

Note on publication: Describes the generation and characterization of this antibody from PBMCs of infected patients.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.