

Anti-Spike protein [D70678-5521-S2] Standard Size Ab02742-1.7

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

This chimeric mouse 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: Mouse F(ab)₂, AbFab2™ His-Tagged, Kappa

Clone Number: D70678-5521-S2

Alternative Name(s) of Target: SARS CoV 2 S glycoprotein; COVID-19 Spike protein; RBD; Receptor Binding Domain; E2 glycoprotein; E2; Human coronavirus 2 spike glycoprotein; Peplomer protein; S glycoprotein; SARS coronavirus 2 S protein; SARS coronavirus 2 Spike Protein; SARS CoV 2 Spike protein; SARS CoV 2; SARS-CoV-2 S protein; SARSCoV2; SARS-COV-2 S protein; SARS-COV-2 Spike glycoprotein; SARSCOV2 Spike protein; Severe acute respiratory syndrome 2 spike glycoprotein; Severe acute respiratory syndrome virus 2 spike glycoprotein; Spike glycoprotein; 2019-nCoV

UniProt Accession Number of Target Protein: P0DTC2

Published Application(s): functional assay, SPR, ELISA

Published Species Reactivity: SARS Coronavirus 2 (SARS-Cov-2)

Immunogen: This antibody was raised by immunizing transgenic Alloy GK mice with SARS CoV2 spike protein S1 subunit.

Specificity: This antibody is specific for the spike protein of SARS CoV2. SARS-CoV-2 is a positive-sense single-stranded RNA virus[5] that is contagious in humans.

Application Notes: To characterize this antibody, an indirect ELISA was performed using the human version of this antibody. The antigen used was the SARS CoV2 spike protein. The human version of this antibody is capable of binding the S1 protein but incapable of blocking S1:ACE2 interaction. This antibody is reported to bind non-competitively with another anti-SARS CoV2 antibody 18F4. Further both biolayer interferometry and surface plasmon resonance were used to determine the kinetics of the human version of this antibody. Both experiments used the SARS CoV2 spike protein as the antigen (Mullen et al, 2021).

Antibody First Published in: Mullen et al. Accelerated antibody discovery targeting the SARS-CoV-2 spike protein for COVID-19 therapeutic potential. BioRxiv (2021) [PMID:](#)

Note on publication: Describes the generation of this antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.