

Anti-Spike protein [3B-G3-C6] Standard Size Ab02620-12.1

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

Isotype and Format: Human IgG3, Kappa

Clone Number: 3B-G3-C6

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): ELISA

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

Immunogen: The original mouse IgG1 version of this antibody was raised by immunizing BALB/c mice with a recombinant soluble trimeric SARS-CoV-2 Spike glycoprotein.

Specificity: This clone recognizes full-length Spike protein of SARS-CoV-2. The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. The S protein is essential for both host specificity and viral infectivity. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Application Notes: This antibody is recommended for the detection and analysis of SARS-CoV-2 Spike protein. Its binding to the Spike protein of SARS-CoV-2 was confirmed via ELISA.

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

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.