

Anti-SARS-CoV-2 Spike protein (RBD monomer) [2B-E7-C9] Standard Size Ab02617-21.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

This reformatted mouse 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: Mouse IgM, Kappa

Clone Number: 2B-E7-C9

Alternative Name(s) of Target: Receptor Binding Domain; 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; 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 monomeric receptor binding domain (RBD) of the SARS-CoV-2 Spike protein as well as the full-length Spike protein. 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 receptor binding domain (RBD), especially in ELISA applications. Its binding to SARS-CoV-2 RBD was

confirmed via ELISA.

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

Note on publication:

Product Form

Size: 50 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

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.