

## Anti-SARS-CoV-2 Spike protein (RBD monomer) [2B-E7-C9] Standard Size Ab02617-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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 IgG2a, [Fc Silent™](#), 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:** 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.