

## Anti-SARS-CoV-2 Spike protein (RBD monomer) [2B-G10-A1] Bulk Size Ab02618-10.7-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 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 F(ab)2, AbFab2™ His-Tagged, Kappa

**Clone Number:** 2B-G10-A1

**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:** 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.