

Product Datasheet

Anti-SARS-CoV-2 Spike Protein (RBD) (RABBIT) Antibody GRP13250

Description

SARS-CoV-2 (Severe acute respiratory syndrome coronavirus 2 or COVID-19) is related to SARS-CoV, MERS, and four milder coronaviruses (HKU1, NL63, OC43 and 229E). SARS-CoV-2 is an enveloped positive-strand RNA virus that consists of four structural proteins: spike (S) protein, envelope (E) protein, membrane (M) protein and nucleocapsid (N) protein. The spike protein is the most important surface protein of coronavirus. SARS-CoV-2 has a high affinity binding to human receptor ACE2 (angiotensin-converting enzyme 2) within respiratory epithelial. ACE2 is a membrane-bound aminopeptidase that has a vital role in the cardiovascular and immune systems. Anti-SARS-CoV-2 Spike Protein Antibody is useful for researchers interested in diagnostics and viral research.

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Species/Host	Rabbit
Reactivity	Virus
Conjugation	Unconjugated
Tested Applications	ELISA
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of the SARS Coronavirus Spike Protein within the Receptor Binding Domain (RBD).
Form/Appearance	Liquid (sterile filtered)
Concentration	0.99 mg/mL
Storage	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Note	For research use only.
Clonality	Polyclonal
Purity	Anti-SARS-CoV-2 Spike affinity purified antibody is directed against SARS Coronavirus 2 Spike protein. The product was purified from monospecific antiserum by immunoaffinity chromatography over SARS CoV-2 Spike resin. BLAST analysis was used to suggest reactivity with related Coronavirus proteins. Cross reactivity with homologues from other sources has not been determined.
Dilution Range	1:150,000-1:450,000
Application Notes	Anti-SARS-CoV-2 Spike protein purified antibody has been tested for use in ELISA and shows reactivity to recombinant SARS COV-2, S1 subunit protein and recombinant SARS COV-2 whole spike protein. Specific conditions for reactivity should be optimized by the end user.