

Datasheet for 200-401-MS9-0.5**SARS-CoV-2 Whole Spike Protein Antibody****Overview**

Description:	Anti-SARS-CoV-2 Whole Spike Protein (RABBIT) Antibody - 200-401-MS9-0.5
Item No.:	200-401-MS9-0.5
Size:	500 µg
Applications:	ELISA
Reactivity:	SARS-CoV-2
Host Species:	Rabbit

Product Details

Background:	SARS-CoV-2 (Severe acute respiratory syndrome coronavirus 2) the virus that causes the disease COVID-19, is related to SARS-CoV, MERS-CoV, and other betacoronaviruses (HKU1, NL63, OC43 and 229E). SARS-CoV-2 is an enveloped positive strand RNA virus that consists of several structural proteins including spike (S) protein, envelope (E) protein, membrane (M) protein and nucleocapsid (N) protein; and other non-structural proteins (NSPs). Spike proteins located on the surface of the virus, have a high affinity for binding to human receptor ACE2 (angiotensin-converting enzyme 2) within respiratory epithelial which serves as an entry mechanism for infection. As such, the S protein may be vital to blocking viral infection and vaccine development. Anti-SARS-CoV-2 Spike Protein Antibody is useful for researchers interested in diagnostics, vaccines, and viral research.
Synonyms:	rabbit anti-SARS CoV 2 Spike Protein Antibody, Spike glycoprotein antibody, SARS CoV2 antibody, 2019-nCoV, COVID-19, S glycoprotein, Severe acute respiratory syndrome antibody, Severe acute respiratory syndrome coronavirus 2 (2019-nCoV) (SARS-CoV-2)
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	SARS-CoV-2
Immunogen Type:	Recombinant Protein

Immunogen:	This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a purified SARS-CoV-2 S protein with His-tag, derived from the transfected human HEK293 cells.
Purity/Specificity:	Anti-SARS-CoV-2 Spike antibody is directed against SARS Coronavirus 2 Spike protein. The product was purified from monospecific antiserum by protein A affinity purification. BLAST analysis was used to suggest reactivity with related Coronavirus proteins. Cross reactivity with homologues from other sources has not been determined.
Relevant Links:	• NCBI - QHD43416.1 • NCBI - MN908947.3 • UniProtKB - P0DTC2

Application Details

Tested Applications:	ELISA
Application Note:	Anti-SARS-CoV-2 Whole Spike protein antibody has been tested for use in ELISA and shows reactivity to SARS COV-2 Whole Spike and COV-2 Spike (S2) protein. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:100,000
WB:	User Optimized

Formulation

Physical State:	Lyophilized
Concentration:	5.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

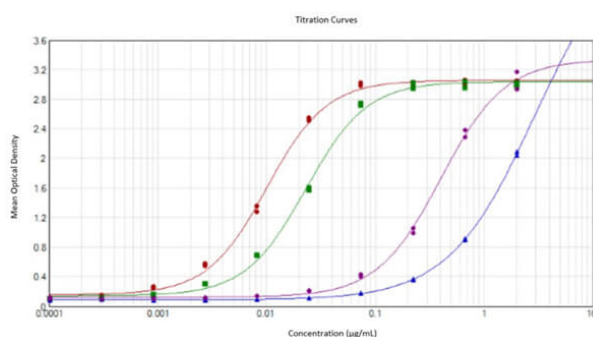
Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition: Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ELISA

ELISA results of Rabbit Anti-SARS CoV-2 Whole Spike Protein. Each well was coated in duplicate with 0.5 µg of SARS CoV-2 Whole Spike Protein [Red Line], SARS CoV-2 Spike (S2) glycoprotein, ShFC Protein [Green Line], MERS CoV Spike S1 (aa1-725) [Blue Line], SARS CoV-2 Nucleocapsid Protein [Purple Line]. The starting dilution of antibody was 2µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. SARS CoV-2 Whole Spike IC50: 10ng/mL, SARS CoV-2 (S2) glycoprotein, ShFC Protein IC50: 23ng/mL. Not recommended for nucleocapsid or MERS detection. Assay performed using Goat Anti-Rabbit IgG HRP conjugated (p/n 611-1302) and TMB substrate (p/n TMBE-1000).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.