

Datasheet for 200-301-MS8**SARS-CoV-2 Spike Protein (RBD) Antibody****Overview**

Description:	Anti-SARS-CoV-2 Spike Protein (RBD) (MOUSE) Monoclonal Antibody - 200-301-MS8
Item No.:	200-301-MS8
Size:	100 µg
Applications:	ELISA
Reactivity:	SARS-CoV-2
Host Species:	Mouse

Product Details

Background:	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.
Synonyms:	mouse anti-SARS CoV 2 Spike Protein Receptor Binding Domain 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:	Mouse
Clonality:	Monoclonal
Clone ID:	15C11.A4 .H11.G7
Format:	IgG

Target Details

Gene Name:	S
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Reactivity:	SARS-CoV-2
Immunogen Type:	Conjugated Peptide
Immunogen:	This protein A purified antibody was 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).
Purity/Specificity:	Anti-SARS-CoV-2 Spike (RBD) antibody is directed against SARS Coronavirus 2 Spike protein. The product was purified from roller bottle culture by protein A 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.
Relevant Links:	• NCBI - QHD43416.1 • NCBI - MN908947.3 • UniProtKB - P0DTC2

Application Details

Tested Applications:	ELISA
Application Note:	Anti-SARS-CoV-2 Spike protein purified antibody has been tested for use in ELISA and shows reactivity to recombinant SARS COV-2 Receptor Binding Domain. 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:	1:200,000-1:325,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.11 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

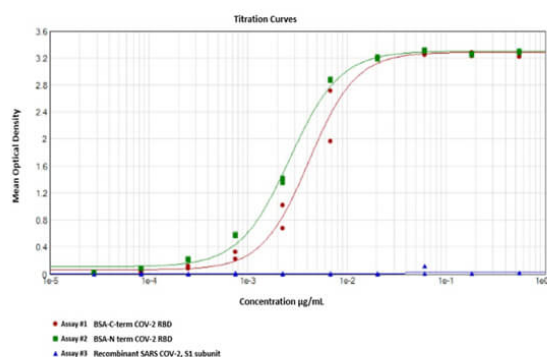
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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 Mouse Anti-SARS CoV-2 Spike Protein (RBD) Antibody. Each well was coated in duplicate with 0.5µg of BSA conjugated SARS-CoV-2 RBD (C-Term) [RED line], BSA conjugated SARS-CoV-2 RBD (N-Term) [GREEN line], and Recombinant SARS CoV-2 S1 [BLUE line]. The working dilution for BSA conjugated SARS-Cov-2 (C-Term) is 1:242,000 and BSA conjugated SARS-Cov-2 (N-Term) is 1:378,800. The starting dilution of antibody was 0.55µg/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 (C-Term) EC50: 4ng/mL and SARS-CoV-2 (N-Term) EC50: 3ng/mL.

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.