

## Datasheet for KAA4MS9

## SARS-CoV-2 Whole Spike Protein Antibody Set for ELISA

### Overview

<b>Description:</b>	SARS-CoV-2 Whole Spike Protein Antibody Set for ELISA - KAA4MS9
<b>Item No.:</b>	KAA4MS9
<b>Size:</b>	1 Kit
<b>Applications:</b>	ELISA

### Product Details

<b>Background:</b>	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.
<b>Synonyms:</b>	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)

### Target Details

<b>Immunogen Type:</b>	Recombinant Protein
<b>Purity/Specificity:</b>	Anti-SARS-CoV-2 Whole Spike (Rabbit) antibody is directed against SARS Coronavirus 2 Spike protein. This product was purified from monospecific antiserum by immunoaffinity chromatography. Anti-SARS-CoV-2 Whole Spike Biotin Conjugated (Mouse) Antibody is directed against SARS Coronavirus 2 Spike (S) protein. This product was purified from roller bottle culture by protein A chromatography. Streptavidin-HRP was prepared from chromatographically purified streptavidin.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">KAA4MS9 SDS</a></li><li>• <a href="#">UniProtKB - P0DTC2</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA
<b>Application Note:</b>	<p>SARS-CoV-2 Whole Spike Protein Antibody Set for ELISA has been manufactured and tested for use in a sandwich ELISA format. Provided amount is sufficient for 96 assays, but final dilutions should be optimized by the user.</p> <p>Suggested starting dilutions: Capture Antibody: Anti-SARS-CoV-2 Whole Spike Protein (RABBIT) Antibody - 600-401-MS9 (10 µg/mL). Detection Antibody: Anti-SARS-CoV-2 Whole Spike Protein (MOUSE) Antibody Biotin Conjugated - KAA002 (10 µg/mL). Reporter: STREPTAVIDIN PEROXIDASE Conjugated - KAR008 (1:1000). Suggested additional products: BlockOut® (2X) - Universal Blocking Buffer for Western Blotting - MB-073-050. 10X PBST (0.2 M Potassium Phosphate 1.5 M Sodium Chloride, 0.5% (v/v) Tween-20, pH 7.2) - MB-075-1000. TMB ELISA PEROXIDASE SUBSTRATE - TMBE-100.</p>
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:110,000-1:170,000

## Formulation

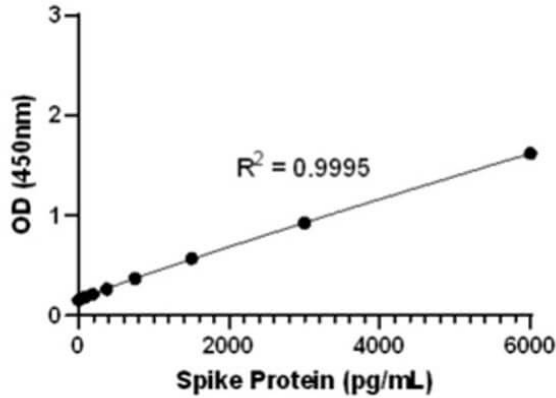
**Concentration:** n/a

## Shipping & Handling

**Shipping Condition:** Dry Ice

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

## Images

**ELISA**

Sandwich ELISA Report for the detection of SARS-CoV-2 Spike Protein. Capture Antibody: Anti-SARS-CoV-2 Whole Spike Protein (RABBIT) Antibody (p/n 600-401-MS9) [10  $\mu\text{g}/\text{mL}$ ]. Detection Antibody: Anti-SARS-CoV-2 Whole Spike Protein (MOUSE) Antibody Biotin Conjugated (p/n KAA002) [10  $\mu\text{g}/\text{mL}$ ]. Reporter: Streptavidin Peroxidase Conjugated (p/n S000-03) [1:1000] SARS-CoV-2 was serially diluted from 6000  $\text{pg}/\text{mL}$  to 5.8  $\text{pg}/\text{mL}$ . Analysis confirms sensitivity to 5.8  $\text{pg}/\text{mL}$ .

**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.