DATASHEET

COVID-19 Spike glycoprotein Rabbit Polyclonal Antibody

CAT. NO. APA12520

KEY FEATURES

Target	COVID-19 Spike glycoprotein	Source / Host	Rabbit
Reactivity	COVID-19	Clonality	Polyclonal
Applications	WB, ELISA	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. The major receptor is host ACE2 . When S2/S2' has been cleaved, binding to the receptor triggers direct fusion at the cell membrane . When S2/S2' has not been cleaved, binding to the receptor results in internalization of the virus by endocytosis using host TFRC and GRM2 and leading to fusion of the virion membrane with the host endosomal membrane . Alternatively, may use NRP1/NRP2 and integrin as entry receptors . The use of NRP1/NRP2 receptors may explain the tropism of the virus in human olfactory epithelial cells, which express these molecules at high levels but ACE2 at low levels . Uses also ASGR1 as an alternative receptor in an ACE2-independent manner .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1000 - 1:3000
ELISA	Use at an assay dependent dilution

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to COVID-19 Spike glycoprotein
Specificity	Recognizes COVID-19 Spike glycoprotein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of COVID-19 Spike glycoprotein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: \; Observed: 35-43 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Spike glycoprotein; S glycoprotein; E2; Peplomer protein
Gene Symbol	S
Entrez Gene	43740568(Human)
SwissProt	P0DTC2(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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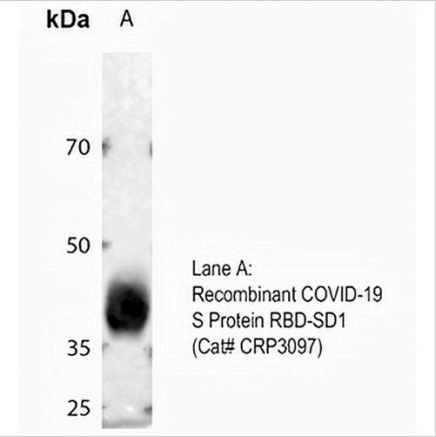
DATA



Western blot analysis of COVID-19 Spike glycoprotein using Recombinant COVID-19 S Protein RBD-SD1 (A). (Predicted band size: \; Observed band size: 35-43 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.