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Datasheet for ABIN1030641 anti-SARS-CoV-2 Spike antibody (C-Term)

11 Images

11 Publications



Overview

Quantity:	0.1 mg
Target:	SARS-CoV-2 Spike
Binding Specificity:	C-Term
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2), SARS Coronavirus (SARS-CoV)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SARS-CoV-2 Spike antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)
Product Details	
Immunogen:	Anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Spike antibody was raised against a peptide
	corresponding to 20 amino acids near the carboxy terminus of SARS-CoV-2 (COVID-19, 2019-
	nCoV) Spike glycoprotein.
	The immunogen is located within the last 50 amino acids of SARS-CoV-2 (COVID-19, 2019-
	nCoV) Spike protein.
lsotype:	lgG
Predicted Reactivity:	Predicted reactivity based on immunogen sequence: SARS-CoV Spike proteins: (100%)
Purification:	Affinity chromatography purified via peptide column
Target Details	
Target:	SARS-CoV-2 Spike

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Target Details	
Abstract:	SARS-CoV-2 Spike Products
Target Type:	Viral Protein
Background:	Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus. The disease is the cause of the 2019–20 coronavirus outbreak. The structure of 2019-nCoV consists of the following: a Spike protein (S), hemagglutinin-esterease dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleoclapid protein (N) and RNA. Coronavirus invades cells through Spike (S) glycoproteins, a class I fusion protein. It is the major viral surface protein that coronavirus uses to bind to the human cell surface receptor. It also mediates the fusion of host and viral cell membrane, allowing the virus to enter human cells and begin infection. The spike protein is the major target for neutralizing antibodies and vaccine development. The protein modeling suggests that there is strong interaction between Spike protein receptor-binding domain and its host receptor angiotensin-converting enzyme 2 (ACE2), which regulate both the cross-species and human-to-human transmissions of COVID-19. The recent study has shown that the SARS-CoV-2 spike protein binds ACE2 with higher affinity than SARS-CoV spike protein .
NCBI Accession:	QHD43416

Application Details

Application Notes:	WB: 1 µg/mL; IF: 1 µg/mL. IHC: 0.2 µg/mL
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	The antibody is supplied in PBS containing 0.02% sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies

vice: As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

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Handling	
Storage:	4 °C/-20 °C
Storage Comment:	Antibody can be stored at 4° C for three months and -20°C, stable for up to one year.
Expiry Date:	12 months
Publications	
Product cited in:	El Jamal, Pujadas, Ramos, Bryce, Grimes, Amanat, Tsankova, Mussa, Olson, Salem, Miorin, Aydillo, Schotsaert, Albrecht, Liu, Marjanovic, Francoeur, Sebra, Sealfon, García-Sastre, Fowkes, Cordon-Cardo et al.: "Tissue-Based SARS-Cov-2 Detection in Fatal COVID-19 Infections: Sustained Direct Viral-Induced Damage is Not Necessary to Drive Disease Progression" in: Human pathology , (2021) (PubMed).
	Garifullina, Shen: "High-throughput fabrication of high aspect ratio Ag/Al nanopillars for optical detection of biomarkers." in: Journal of materials chemistry. B , (2021) (PubMed).
	Magro, Mulvey, Berlin, Nuovo, Salvatore, Harp, Baxter-Stoltzfus, Laurence: "Complement associated microvascular injury and thrombosis in the pathogenesis of severe COVID-19 infection: A report of five cases." in: Translational research : the journal of laboratory and clinical medicine , Vol. 220, pp. 1-13, (2020) (PubMed). Mulvey, Magro, Ma, Nuovo, Baergen: "Analysis of complement deposition and viral RNA in placentas of COVID-19 patients." in: Annals of diagnostic pathology , Vol. 46, pp. 151530, (2020)
) (PubMed).

There are more publications referencing this product on: Product page



Immunofluorescence

Image 1. Immunofluorescence Validation of SARS-CoV-2 (COVID-19) Spike in 293T Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed 293T cells labeling SARS-CoV-2 (COVID-19) Spike with ABIN1030641 at 1 μ g/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

ELISA

Image 2. ELISA Test Antibodies: SARS-CoV-2 (COVID-19, 2019-nCoV) Spike antibody, ABIN1030641 (1 μ g/mL). A sandwich ELISA was performed using antigen or control peptide as coating antigen and the anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Spike antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.5 ng/mL to 1000ng/mL.

Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffinembedded COVID-19 patient lung tissue using anti-SARS-CoV-2 (COVID-19) Spike S2 antibody (ABIN1030641, 0.5 μ g/mL). Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 °C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin. Strong spike protein signal was observed in macrophages and airway epithelium of COVID-19 patient lung, but not in non-COVID-19 patient lung.

Please check the product details page for more images. Overall 11 images are available for ABIN1030641.

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