

Product Datasheet

SARS-CoV-2 Spike Antibody - BSA Free NBP2-41058

Unit Size: 0.1 mg

Store at 4C.

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NBP2-41058**SARS-CoV-2 Spike Antibody - BSA Free**

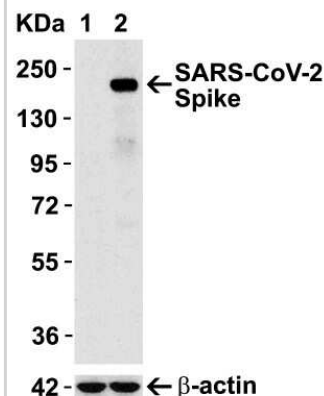
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit SARS-CoV-2 Spike Antibody - BSA Free (NBP2-41058) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-SARS-CoV-2 Spike Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	43740568
Gene Symbol	S
Species	SARS-CoV-2
Immunogen	Antibody was raised against a peptide corresponding to 20 amino acids near the carboxy terminus of SARS-CoV-2 Spike glycoprotein. The immunogen is located within the last 50 amino acids of SARS-CoV-2 Spike protein.

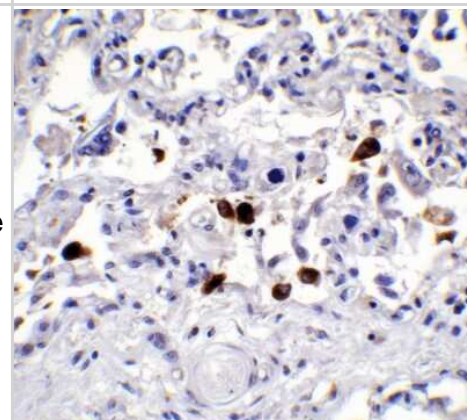
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 ug/ml, ELISA 1 ug/mL, Immunohistochemistry 0.2 ug/mL, Immunocytochemistry/ Immunofluorescence 1 ug/ml, Immunohistochemistry-Paraffin
Application Notes	The immunogen for this is within the last 50 aa of the spike protein - a peptide corresponding to 20 amino acids near the carboxy terminus of SARS-CoV-2 (COVID-19) Spike glycoprotein. The Extracellular domain (ECD) is from aa 1 to 1208 (full length 1273aa). Therefore, this antibody detects the transmembrane and cytoplasm domains at the C terminus, but does not detect the ECD (which is the region expressed in many commercially available spike proteins). NBP2-41058 can be used for the detection of full length spike protein and spike protein in COVID-19 patient samples.

Images

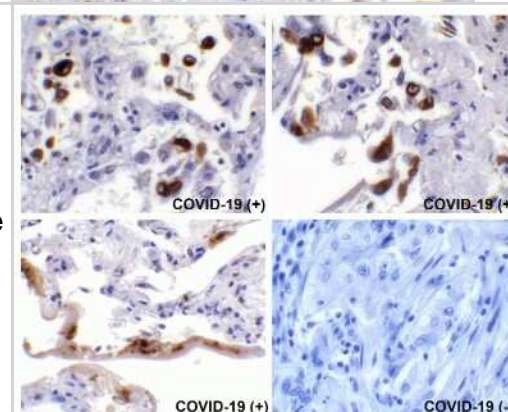
Western Blot: SARS-CoV-2 Spike Antibody [NBP2-41058] - Validation in Spike Transfected 293 Cells Loading: 15 ug per lane of 293 cell lysate. SARS-CoV-2 Spike(1ug/mL), 1h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: WT 293 cells and Lane 2: SARS-CoV-2 Spike overexpressed 293 cells



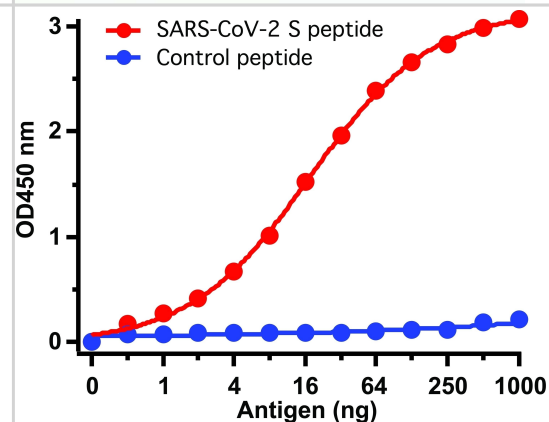
Immunohistochemistry-Paraffin: SARS-CoV-2 Spike Antibody [NBP2-41058] - Immunohistochemistry Validation of SARS-CoV-2 Spike in COVID-19 Patient Lung. Immunohistochemical analysis of paraffin-embedded COVID-19 patient lung tissue using anti-SARS-CoV-2 Spike S2 antibody (NBP2-41058, 0.5 ug/mL). Tissue 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 of COVID-19 patient lung.



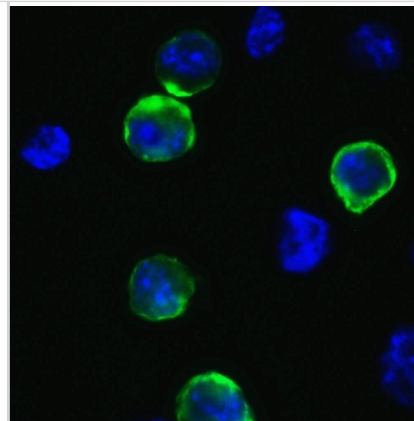
Immunohistochemistry-Paraffin: SARS-CoV-2 Spike Antibody [NBP2-41058] - Immunohistochemistry Validation of SARS-CoV-2 Spike in COVID-19 Patient Lung. Immunohistochemical analysis of paraffin-embedded COVID-19 patient lung tissue using anti-SARS-CoV-2 Spike S2 antibody (NBP2-41058, 0.5 ug/mL). Tissue 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.



ELISA: SARS-CoV-2 Spike Antibody - BSA Free [NBP2-41058] - Figure 14 ELISA Test Antibodies: SARS-CoV-2 (COVID-19) Spike antibody, (1 u/mL). A direct ELISA was performed using immunogen or control peptide as coating antigen and the anti-SARS-CoV-2 (COVID-19) 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 1000 ng/mL.



Immunocytochemistry/ Immunofluorescence: SARS-CoV-2 Spike Antibody - BSA Free [NBP2-41058] - 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 at 1 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Publications

Kiyan Y, Schultalbers A, Chernobrivaia E et al. Calcium dobesilate reduces SARS-CoV-2 entry into endothelial cells by inhibiting virus binding to heparan sulfate Scientific reports 2022-10-07 [PMID: 36207386] (ICC/IF, IHC-Fr)



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Products Related to NBP2-41058

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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