

# Product Datasheet

## **SARS-CoV-2 Spike S1 Antibody - BSA Free NBP3-26918-0.1mg**

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 10/7/2024 v.20.1

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**NBP3-26918-0.1mg**

SARS-CoV-2 Spike S1 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS

**Product Description**

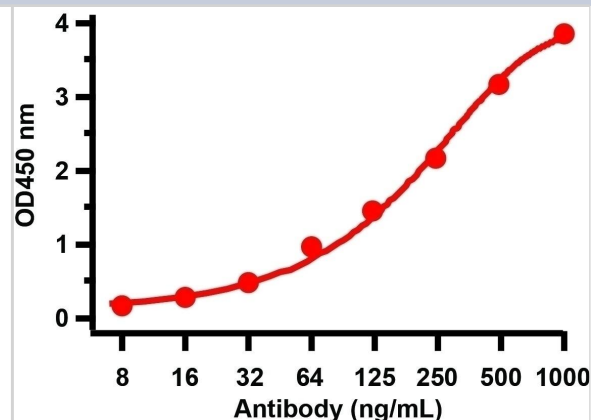
<b>Host</b>	Rabbit
<b>Gene ID</b>	43740568
<b>Gene Symbol</b>	S
<b>Species</b>	SARS-CoV-2
<b>Immunogen</b>	SARS-CoV-2 Spike S1 Antibody was raised against a peptide corresponding to 16 amino acids near the amino terminus of SARS-CoV-2 (COVID-19) Spike S1 glycoprotein. The immunogen is located within the first 50 amino acids of SARS-CoV-2 (COVID-19) Spike S1 protein.

**Product Application Details**

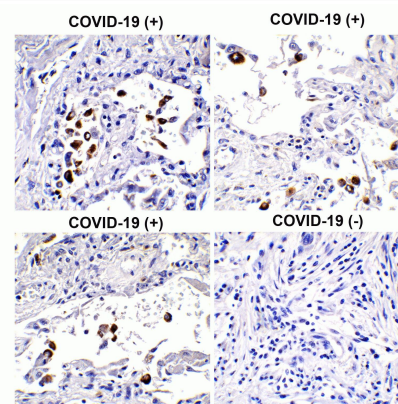
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/mL, ELISA, Immunohistochemistry 0.5 ug/mL, Immunocytochemistry/ Immunofluorescence
<b>Application Notes</b>	SARS-CoV-2 Spike S1 Antibody can be used for the detection of SARS-CoV-2 (COVID-19) Spike protein in ELISA. It will detect 4 ng of free peptide at 1 ug/mL.

**Images**

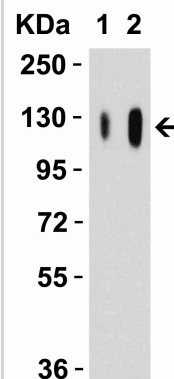
ELISA: SARS-CoV-2 Spike S1 Antibody - BSA Free [NBP3-26918] - Validation with SARS-CoV-2 Spike Recombinant Protein. Antibodies: SARS-CoV-2 Spike S1 antibody, NBP3-26918. A direct ELISA was performed using SARS-CoV-2 (COVID-19) Spike S1 recombinant protein as coating antigen and the anti-SARS-CoV-2 Spike S1 antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 8 ng/mL to 1000 ng/mL.



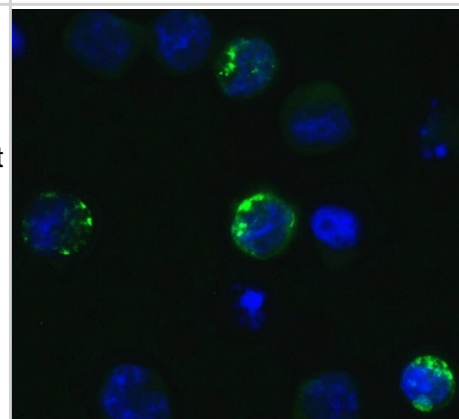
**Immunohistochemistry: SARS-CoV-2 Spike S1 Antibody - BSA Free [NBP3-26918] - Validation of SARS-CoV-2 Spike S1 in COVID-19 Patient Lung.** Analysis of paraffin-embedded COVID-19 patient lung tissue using anti- SARS-CoV-2 Spike S1 antibody (0.5 ug/mL). Tissue was fixed with formaldehyde and blocked 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 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin. Strong signal of SARS-COV-2 spike protein was observed in macrophage of COVID-19 patient lung, but not in non-COVID-19 patient lung.



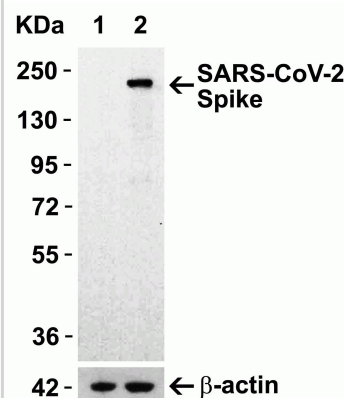
**Western Blot: SARS-CoV-2 Spike S1 Antibody - BSA Free [NBP3-26918] - Validation with SARS-CoV-2 Spike Recombinant Protein.** Loading: 50 ng per lane of SARS-CoV-2 Spike S1 recombinant protein. Antibodies: SARS-CoV-2 Spike S1, NBP3-26918, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 1 ug/mL and Lane 2: 2 ug/mL.



**Immunocytochemistry/Immunofluorescence: SARS-CoV-2 Spike S1 Antibody - BSA Free [NBP3-26918] - Validation of SARS-CoV-2 Spike S1 in 293 Transfected Cells.** Analysis of 4% paraformaldehyde-fixed Spike transfected 293 cells labeling SARS-CoV-2 Spike S1 with NBP3-26918 at 5 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



**Western Blot: SARS-CoV-2 Spike S1 Antibody - BSA Free [NBP3-26918] - Overexpression Validation in Spike Transfected 293 Cells.** Loading: 10 ug per lane of 293 cell lysate. Antibodies: SARS-CoV-2 Spike S1, NBP3-26918 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. 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.





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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-90985	Recombinant SARS-CoV-2 Spike S1 His (C-Term) Protein

### **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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