

Product Datasheet

SARS-CoV-2 Envelope Antibody - BSA Free NBP3-07060

Unit Size: 0.1 mg

Store at 4C.

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Publications: 3

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NBP3-07060**SARS-CoV-2 Envelope 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

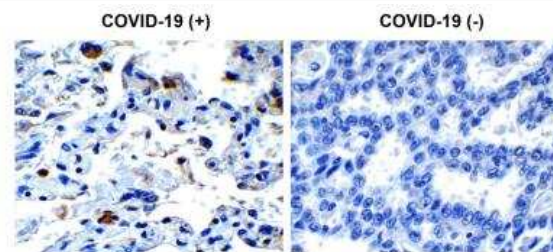
Product Description	
Description	Novus Biologicals Rabbit SARS-CoV-2 Envelope Antibody - BSA Free (NBP3-07060) is a polyclonal antibody validated for use in IHC, WB and ELISA. Anti-SARS-CoV-2 Envelope Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	43740570
Gene Symbol	E
Species	SARS-CoV-2
Immunogen	This antibody was raised against a peptide corresponding to 14 amino acids near the carboxyl terminus of SARS-CoV-2 (COVID-19) Envelope protein. The immunogen is located within the last 50 amino acids of SARS-CoV-2 (COVID-19) Envelope protein.

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot, ELISA 1 ug/mL, Immunohistochemistry 0.5 ug/mL

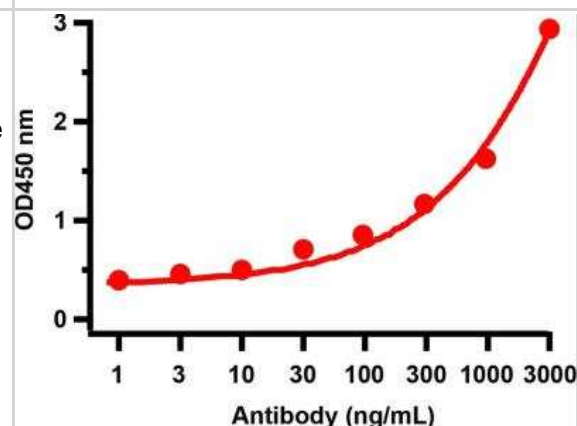
Images

Western Blot: SARS-CoV-2 Envelope Antibody [NBP3-07060] - Loading:  50 ng per lane of SARS-CoV-2 (COVID-19) Envelope recombinant protein. Antibodies: SARS-CoV-2 (COVID-19) Envelope, 1h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 1 ug/mL and Lane 2: 2 ug/mL

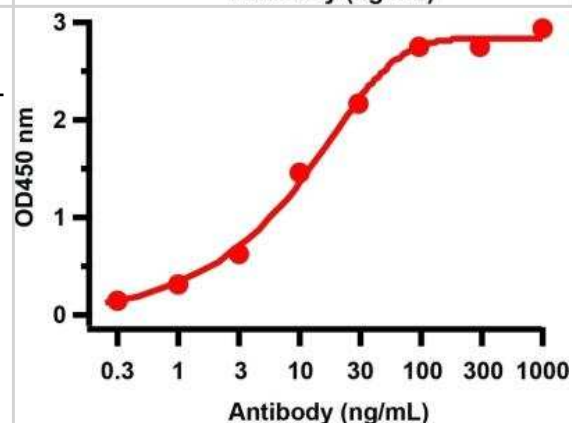
Immunohistochemistry: SARS-CoV-2 Envelope Antibody [NBP3-07060] - Immunohistochemistry analysis of paraffin-embedded COVID-19 patient lung tissue using (0.5 ug/mL). Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 degrees celsius. 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 envelope protein was observed in macrophage of COVID-19 patient lung, but not in non-COVID-19 patient lung.



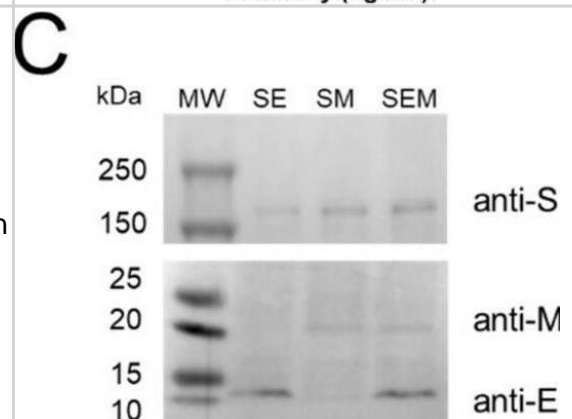
ELISA: SARS-CoV-2 Envelope Antibody [NBP3-07060] - Antibodies: SARS-CoV-2 Envelope Antibody. A direct ELISA was performed using SARSCoV-2 Envelope recombinant protein (92-730) as coating antigen and the anti-SARS-CoV-2 (COVID-19) Envelope antibody as the capture antibody. Secondary: Goat an-rabbit IgG HRP conjugate at 1:20000 diluon. Detection range is from 1 ng/mL to 3000 ng/mL



ELISA: SARS-CoV-2 Envelope Antibody [NBP3-07060] - Antibodies: SARS-CoV-2 Envelope Antibody. A direct ELISA was performed using immunogen peptide (3531P) as coating antigen and the anti-SARS-CoV-2 (COVID-19) Envelope antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.3 ng/mL to 1000 ng/mL.



Characterizing the effects of SARS-CoV-2 structural proteins on VLP formation and spike yield. (A) Schematic of the recombinant baculovirus vectors used to produce SE, SM, and SEM SARS-CoV-2 VLPs in Sf9 cells. (B) Transmission electron microscopy (TEM) images showing anti-S immunogold-labeled VLPs. (C) Western blot analyses of SARS-CoV-2 proteins in VLPs. Quantification of (D) VLP spike yield and (E) cellular S protein expression level based on Western blot analyses. (F) % S protein incorporated in VLPs. For (D–F), data represent mean \pm SE (n = 3, unpaired Student's t test, all p > 0.05, not significant). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37834067>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Tang, Z;Xu, Y;Tan, Y;Shi, H;Jin, P;Li, Y;Teng, J;Liu, H;Pan, H;Hu, Q;Cheng, X;Ye, J;Su, Y;Sun, Y;Meng, J;Zhou, Z;Chi, H;Wang, X;Liu, J;Lu, Y;Liu, F;Dai, J;Yang, C;Chen, S;Liu, T; CD36 mediates SARS-CoV-2-envelope-protein-induced platelet activation and thrombosis Nature communications 2023-08-21 [PMID: 37604832]

Andrew J Zak, Trang Hoang, Christine M Yee, Syed M Rizvi, Ponnandy Prabhu, Fei Wen Pseudotyping Improves the Yield of Functional SARS-CoV-2 Virus-like Particles (VLPs) as Tools for Vaccine and Therapeutic Development. International journal of molecular sciences 2023-10-23 [PMID: 37834067]

Baral B, Saini V, Tandon A et al. SARS-CoV-2 envelope protein induces necroptosis and mediates inflammatory response in lung and colon cells through receptor interacting protein kinase 1 Apoptosis : an international journal on programmed cell death 2023-09-02 [PMID: 37658919]





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Products Related to NBP3-07060

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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