

Product Datasheet

SARS Nucleocapsid Protein Antibody - BSA Free NBP2-44205-100ug

Unit Size: 100 ug

Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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NBP2-44205-100ug

SARS Nucleocapsid Protein Antibody - BSA Free

Product Information	
Unit Size	100 ug
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	For the 500 ug size, we recommend reconstituting with 100 ul deionized water. The 0.1 mg size is provided in liquid format (0.02 ml).
Isotype	IgG
Purity	Protein A purified
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Product Description	
Description	<p>The recombinant nucleocapsid protein was prepared as follows: SUMO-Nucleocapsid fusion was expressed in E.coli in LB medium and purified using Ni-NTA resin (Qiagen) affinity chromatography. After the fusion was cleaved by the SUMO Protease, the SUMO tag and protease were subtracted from the nucleocapsid using MAC and the nucleocapsid was finally purified using Cation Exchange Chromatography with the Macro-Prep High S resin (BioRad) and size exclusion chromatography.</p> <p>NBP2-44205 is manufactured exclusively by Rockland Immunochemicals.</p> <p>This protein A purified antibody is directed against SARS Coronavirus Nucleocapsid (N) protein. The product was purified from monospecific antiserum by protein A affinity purification</p> <p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	1489678
Gene Symbol	N
Species	SARS-CoV
Reactivity Notes	SARS Coronavirus. Immunogen displays the following percentage of sequence identity for non-tested species: COVID-19 (91%)
Specificity/Sensitivity	The product was purified from monospecific antiserum by protein A affinity purification.
Immunogen	This SARS Nucleocapsid Protein Antibody was developed by immunizing rabbits with a full-length recombinant protein from the N (SARS Nucleocapsid) for the Human SARS coronavirus (Uniprot#: P59595)

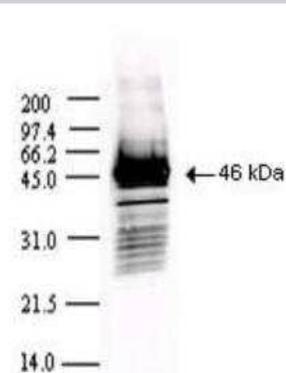
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry



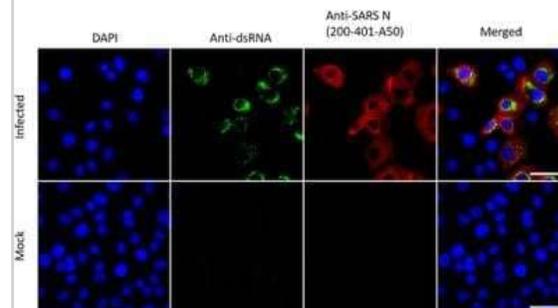
Recommended Dilutions	Western Blot 1:2000 - 1:10000, ELISA 1:10000 - 1:50000, Immunohistochemistry 1:100 - 1:6000, Immunocytochemistry/Immunofluorescence 1:10 - 1:500
Application Notes	Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 46 kDa in size corresponding to SARS Nucleocapsid (N) protein by western blotting in the appropriate cell lysate or extract. ELISA and lateral flow format has been used to detect virus in extracts from nasal and throat swabs and saliva. IF has been used to determine the presence or absence of virus entering cells especially when This antibody has the ability to neutralize the virus and thereby protect cells from the uptake of live virus. Others have demonstrated the utility of the antibody in flow cytometry studies.

Images

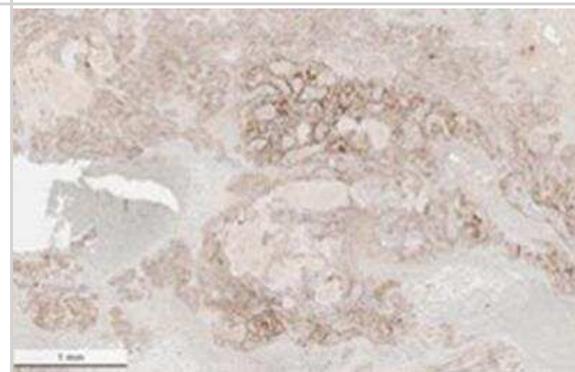
Western Blot: SARS Nucleocapsid Protein Antibody [NBP2-44205] - Western blot using Protein A Purified anti-SARS CoV Nucleocapsid (N) protein antibody shows detection of a 46 kDa band corresponding to the protein. Approx. 100 ng of protein was loaded for SDS-PAGE and transferred onto nitrocellulose. The blot was incubated with a 1:5,000 dilution of the antibody at room temperature for 1 h followed by detection using IRDy(TM) 800 labeled Goat-a-Rabbit IgG [H&L] (611-132-122) diluted 1:10,000. The fluorescence image was captured using the Odyssey(R) Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



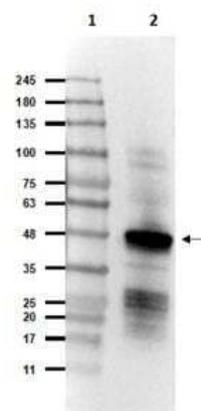
Immunocytochemistry/Immunofluorescence: SARS Nucleocapsid Protein Antibody [NBP2-44205] - Immunofluorescence assay using Rabbit Anti-SARS-CoV Nucleocapsid (N) Antibody, showing viral protein synthesis. VeroE6 cells were infected with rSARS-CoV-2. Mock: non-infected cells. At 48 h.p.i, cells were fixed and prepared for immunofluorescence staining with primary antibodies directed against double-stranded RNA (dsRNA) [green] and SARS-CoV Nucleocapsid (N) [red]. Nuclear Counterstain DAPI [blue].



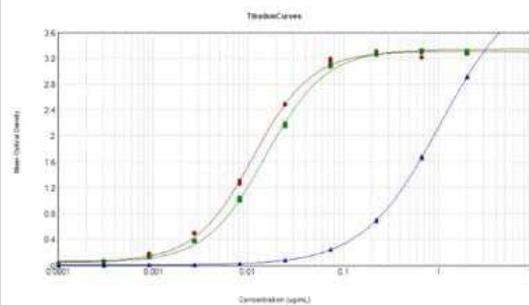
Immunohistochemistry: SARS Nucleocapsid Protein Antibody [NBP2-44205] - Immunohistochemistry results showing positive staining in placenta tissue using Anti-SARS-CoV Nucleocapsid (N) Antibody.



Western Blot: SARS Nucleocapsid Protein Antibody [NBP2-44205] - Western Blot of Rabbit Anti-SARS CoV Nucleocapsid (N) Protein Antibody. Lane 1: Opal Prestained Molecular Weight Marker. Lane 2: SARS CoV Nucleocapsid (N) Protein [20 ng]. Primary Antibody: Anti-SARS CoV Nucleocapsid (N) Protein Antibody at 1.0 ug/mL overnight at 2-8 degrees C. Secondary Antibody: Goat Anti-Rabbit IgG HRP at 1:40000 for 30 mins at RT. Predicted MW: ~46 kDa. Observed MW: ~48 kDa.



ELISA: SARS Nucleocapsid Protein Antibody [NBP2-44205] - ELISA results of Rabbit Anti-SARS-CoV Nucleocapsid (N) Protein. Each well was coated in duplicate with 0.5ug/mL of SARS CoV-1 [Red Line], SARS CoV-2 Nc [Green Line], MERS CoV N [Blue Line]. The starting dilution of antibody was 2 ug/mL and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. SARS CoV-1N IC50: 11ng/mL, SARS CoV-2N IC50: 15 ng/mL. Assay performed using Goat Anti-Rabbit IgG HRP conjugated (p/n 611-1302) and TMB substrate (p/n TMBE-1000).





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Products Related to NBP2-44205-100ug

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-56050PEP	SARS Nucleocapsid Protein Antibody Blocking Peptide

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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