Product Datasheet

SARS Nucleocapsid Protein Antibody - BSA Free
NB100-56576

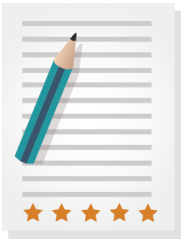
Unit Size: 0.1 mg

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

Publications: 175

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-56576

Updated 9/9/2025 v.20.1



NB100-56576

SARS Nucleocapsid Protein Antibody - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description

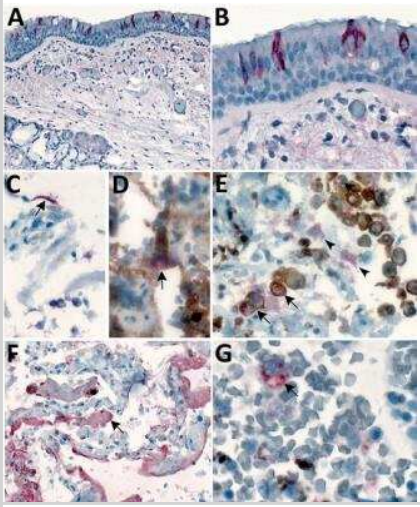
Description	Novus Biologicals Rabbit SARS Nucleocapsid Protein Antibody - BSA Free (NB100-56576) is a polyclonal antibody validated for use in IHC, WB, ELISA, Dual RNAscope ISH-IHC and ICC/IF. Anti-SARS Nucleocapsid Protein Antibody: Cited in 157 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1489678
Gene Symbol	N
Species	SARS-CoV-2, SARS-CoV, Virus
Reactivity Notes	Use in SARS-CoV-2 reported in scientific literature (PMID:33807059).
Specificity/Sensitivity	Dot Blot results using recombinant proteins for cross-reactivity testing revealed high reactivity to SARS-CoV-2 Nucleocapsid protein (NBP2-90975) and low/no reactivity towards H1N1 (NBP1-99041). No cross-reactivity observed with influenza A(H1N1) virus, influenza B virus, respiratory syncytial virus, parainfluenza virus type 3, human coronavirus (HCoV) 229E, or MERS-CoV in PCR-confirmed tissue samples [PMID:32437316].
Immunogen	The antibody was developed by immunizing Rabbit with a synthetic peptide corresponding to amino acids 399-411 (DLDDFSKQLQQSM-C) from the N (SARS Nucleocapsid) for the Human SARS coronavirus (Genbank accession no. YP_009724397.2)

Product Application Details

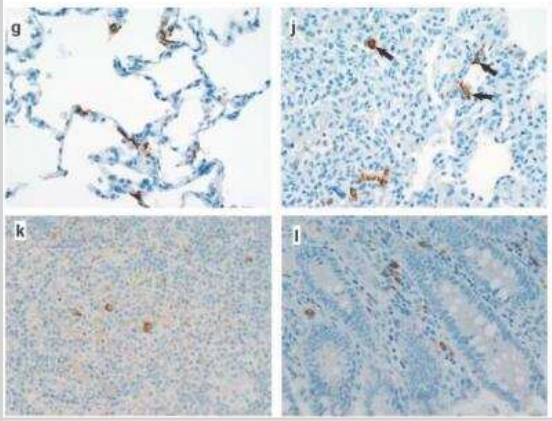
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, SDS-Page, Dual RNAscope ISH-IHC
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry reported in scientific literature (PMID 32396922), Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported in scientific literature (Mossel et al (2008)), Immunohistochemistry-Paraffin reported in scientific literature (PMID 24725942), Immunohistochemistry-Frozen Validated for Immunohistochemistry-Frozen from a verified customer review., SDS-Page reported in scientific literature (PMID 34880383), Dual RNAscope ISH-IHC

Images

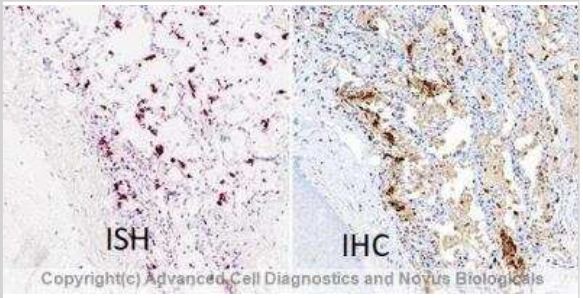
Immunohistochemistry: SARS Nucleocapsid Protein Antibody [NB100-56576] - Immunostaining of severe acute respiratory syndrome coronavirus 2 in pulmonary tissues from fatal coronavirus disease cases. A) P5 (Patient 5): scattered immunostaining of tracheal epithelial cells. B) P5: higher magnification shows immunostaining of ciliated cells. C) P8: immunostaining of desquamated type I pneumocyte in an alveolar lumen. D) P4: colocalization of SARS-CoV-2 viral antigen (red) with type II pneumocyte stained by surfactant (brown; arrow). E) P4: colocalization of SARS-CoV-2 viral antigen (red) with macrophages stained by CD163 (brown; arrows); virus immunostaining within type II pneumocytes is also seen (arrowheads). F) P4: extensive immunostaining of hyaline membranes in a region of exudative DAD. G) P3: scattered immunostaining within macrophage in hilar lymph node; anthracosis is also present. Emerg Infect Dis. 2020 May 21;26(9) 10.3201/eid2609.202095, PMID: 32437316



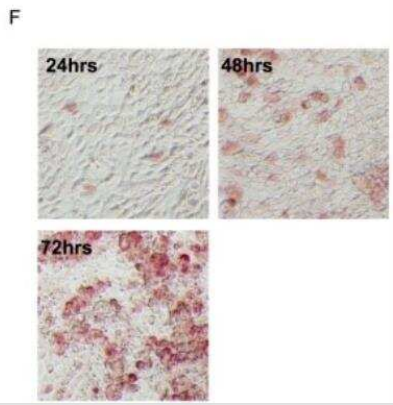
Immunohistochemistry: SARS Nucleocapsid Protein Antibody [NB100-56576] - Pathological changes in rhesus macaques infected with SARS-CoV-2. (g) SARSCoV-2 antigen is detected by immunohistochemistry in type I pneumocytes. Magnification 400x. (j) SARS-CoV-2 antigen is detected by immunohistochemistry in type I pneumocytes (asterisk) and type II pneumocytes (arrow) as well as alveolar macrophages (arrowheads). Magnification 400x. (k) SARS-CoV-2 antigen is detected by immunohistochemistry in mediastinal lymph node. Magnification 400x. (l) SARSCoV-2 antigen is detected by immunohistochemistry in macrophages and lymphocytes in the lamina propria of the cecum. Magnification 400x. bioRxiv March 21, 2020 https://doi.org/10.1101/2020.03.21.001628

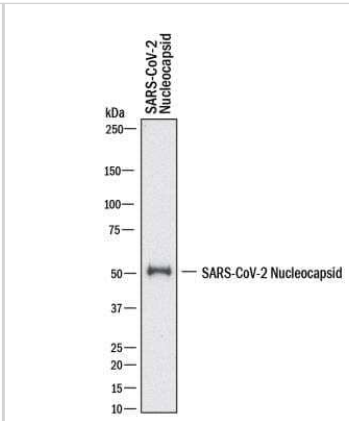
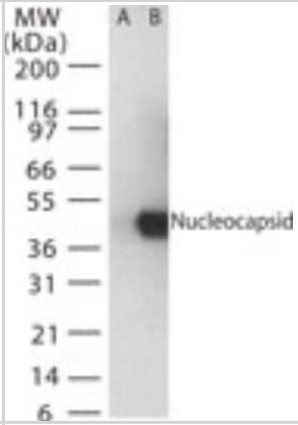
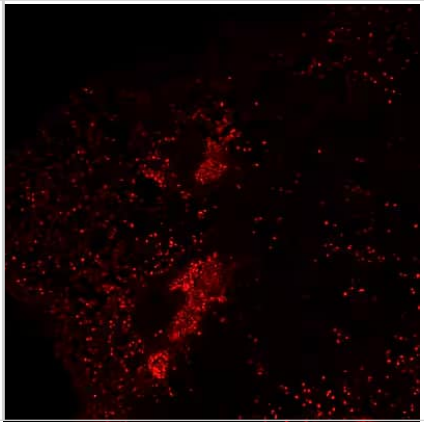


Dual RNAscope ISH-IHC: SARS Nucleocapsid Protein Antibody [NB100-56576] - Formalin-fixed paraffin-embedded tissue sections of SARS-CoV-2 infected human lung tissue were probed for SARS-CoV-2 viral RNA (ACD anti-sense specific probe v-nCoV2019-S (848561); Fast Red chromogen, ACD [322360]). Adjacent tissue section was processed for immunohistochemistry using rabbit polyclonal anti-SARS Nucleocapsid Antibody [NB100-56576] at 15ug/mL with 1 hr incubation at 25 degrees Celsius followed by incubation with anti-rabbit IgG VisUCyte HRP Polymer Antibody [VC003] and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue). Specific staining was localized to SARS-CoV-2 infected cells.



Immunohistochemistry: SARS Nucleocapsid Protein Antibody [NB100-56576] - Characteristics of 2B4 cells clonally derived from human bronchial epithelial Calu-3 cells. Finally, 2B4 cells (passage 6) were infected with SARS-CoV (MOI = 0.1) for 24, 48, and 72 hrs before being fixed with 4% paraformaldehyde for monitoring the morphological changes of infected cells, as visualized by the expression of SARS-CoV NP protein (red) by using the standard IHC (F). Image collected and cropped by CiteAb from the following publication (//dx.plos.org/10.1371/journal.pone.0008729) licensed under a CC-BY license.



Western Blot: SARS Nucleocapsid Protein Antibody [NB100-56576] - Western blot shows recombinant SARS-CoV-2 Nucleocapsid protein. PVDF membrane was probed with 1 ug/mL of Rabbit Anti-SARS-CoV-2 Nucleocapsid Polyclonal Antibody (Catalog # NB100-56576) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (HAF008). A specific band was detected for SARS-CoV-2 Nucleocapsid at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1	
Western Blot: SARS Nucleocapsid Protein Antibody [NB100-56576] - analysis of SARS Nucleocapsid in (A) untransfected mouse melanoma cell lysate and (B) transfected cell lysate using this antibody.	
Immunohistochemistry-Frozen: Rabbit Polyclonal SARS Nucleocapsid Protein Antibody [NB100-56576] - Immunostaining of mouse adult lung infected with SARS-CoV-2. Image from a verified customer review.	

Publications

Morgan A, Vu M, Zhou Y et al. The furin cleavage site is required for pathogenesis, but not transmission, of SARS-CoV-2. Journal of Virology 2025-06-10 [PMID: 40492735]

Alvarez F, Melo G, Larrous F et al. The SARS-CoV-2 envelope PDZ binding motif acts as a virulence factor disrupting host's epithelial cell-cell junctions. Cellular & Molecular Biology Letters 2025-07-11 [PMID: 40646464]

Baid K, Shrivastava S, Luc J et al. Early innate immune response and evolution of a SARS-CoV-2 furin cleavage site inactive variant in bat cells. Cell reports 2025-07-01 [PMID: 40608518]

Thomsen C, Birkelund S, Røge R Immunohistochemical Profiling of Interferon-Stimulated Genes in Histopathological Specimens: A Potential Screening Approach for Viral Infections. APMIS : acta pathologica, microbiologica, et immunologica Scandinavica 2025-06-16 [PMID: 40518873]

Kim S, Felgner J, Soto M et al. Human CD4 T cells are a functional target for lipid nanoparticle-based mRNA vaccines. mBio 2025-09-22 [PMID: 40980892]

Johnson BA, Zhou Y, Lokugamage KG et al. Nucleocapsid mutations in SARS-CoV-2 augment replication and pathogenesis bioRxiv 2023-08-29 [PMID: 34671771]

Sureshchandra S, Lewis SA, Doratt BM et al. Single-cell profiling of T and B cell repertoires following SARS-CoV-2 mRNA vaccine JCI Insight 2021-12-22 [PMID: 34935643]

Zhang ML, Jacobsen F, Pepe-Mooney BJ et al. Clinicopathological findings in patients with COVID-19-associated ischaemic enterocolitis Histopathology 2021-07-22 [PMID: 34292620]

Solomon IH, Normandin E, Bhattacharyya S et al. Neuropathological Features of Covid-19 New England Journal of Medicine 2020-09-03 [PMID: 32530583]

Delval L, Hantute-Ghesquier A, Sencio V et al. Removal of senescent cells reduces the viral load and attenuates pulmonary and systemic inflammation in SARS-CoV-2-infected, aged hamsters Nature Aging 2023-07-06 [PMID: 37414987]

Goh D, Lim JCT, Ferna□ndez SB et al. Case report: Persistence of residual antigen and RNA of the SARS-CoV-2 virus in tissues of two patients with long COVID Frontiers in Immunology 2022-09-05 [PMID: 36131932]

T Morita, K Miyakawa, SS Jeremiah, Y Yamaoka, M Sada, T Kuniyoshi, J Yang, H Kimura, A Ryo All-Trans Retinoic Acid Exhibits Antiviral Effect against SARS-CoV-2 by Inhibiting 3CLpro Activity Viruses, 2021-08-23;13(8):. 2021-08-23 [PMID: 34452533]

More publications at http://www.novusbio.com/NB100-56576

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Products Related to NB100-56576

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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