Product Datasheet

SARS Nucleocapsid Protein Antibody - BSA Free
NB100-56683

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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Publications: 23

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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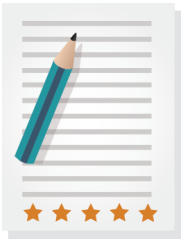
Updated 2/21/2025 v.20.1



NB100-56683

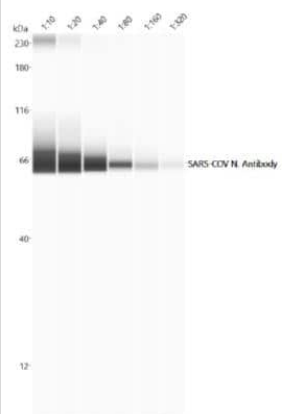
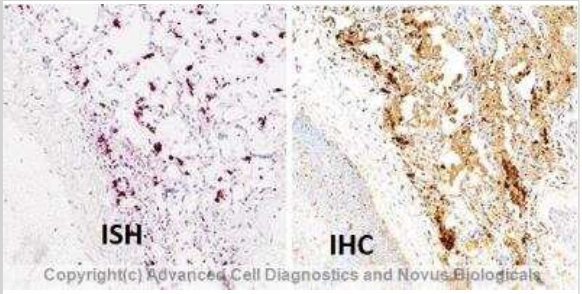
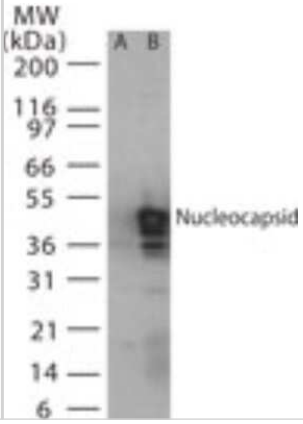
SARS Nucleocapsid Protein Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	1489678
Gene Symbol	N
Species	SARS-CoV, SARS-CoV-2
Specificity/Sensitivity	The was tested on a human cell line transfected with full-length SARS Nucleocapsid cDNA with a predicted molecular weight of 46 kDa.
Immunogen	The antibody was developed by immunizing rabbits with a synthetic peptide corresponding to amino acids 354-370 (NKHIDAYKTFPPTEPKK-C) from the N (SARS Nucleocapsid) for the Human SARS coronavirus (Genbank accession no. YP_009724397.2)

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Dual RNAscope ISH-IHC
Recommended Dilutions	Western Blot 1:100-1:2000, Simple Western 1:50, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 16014910), Immunohistochemistry-Paraffin, Dual RNAscope ISH-IHC

Images

Simple Western: SARS Nucleocapsid Protein Antibody [NB100-56683] - Simple Western lane view shows recombinant SARS-CoV-2 Nucleocapsid Protein (Catalog # 10474-CV), loaded at 20 ng/mL. A specific band was detected for SARS-CoV-2 Nucleocapsid Protein at approximately 60 kDa (as indicated) using a serial dilution of Rabbit Anti-SARS-CoV Nucleocapsid Protein Polyclonal Antibody (Catalog # NB100-56683) followed by incubation with HRP-conjugated Anti-Goat IgG Secondary Antibody. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.	
Dual RNAscope ISH-IHC: SARS Nucleocapsid Protein Antibody [NB100-56683] - 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 [NB100-56683] 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.	
Simple Western: SARS Nucleocapsid Protein Antibody [NB100-56683] - Simple Western lane view shows lysates of SARS-CoV-2 (1:50), MERS (1:100), OC43 (1:100), and 229E (1:100). A specific band was detected for SARS-CoV-2 Nucleocapsid Protein at approximately 60 kDa (as indicated) only in the SARS-CoV-2 lysate using 25 ug/mL of Rabbit Anti-SARS-CoV Nucleocapsid Protein Polyclonal Antibody (Catalog # NB100-56683) followed by incubation with HRP-conjugated Anti-Goat IgG Secondary Antibody. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Note: some reactivity observed with FL Std 230. SARS-CoV-2 lysate courtesy of University of Maryland.	
Western Blot: SARS Nucleocapsid Protein Antibody [NB100-56683] - Analysis of SARS Nucleocapsid in (A) untransfected mouse melanoma cell lysate and (B) transfected cell lysate using this antibody at a 1:2000 dilution.	

Publications

Poma AM, Proietti A, Macerola E, Bonuccelli D et Al. Suppression of Pituitary Hormone Genes in Subjects Who Died From COVID-19 Independently of Virus Detection in the Gland J Clin Endocrinol Metab 2022-05-14 [PMID: 35567590]

Rebendenne A, Valad□o ALC, Tauziet M et al. SARS-CoV-2 triggers an MDA-5-dependent interferon response which is unable to control replication in lung epithelial cells Journal of Virology 2021-03-25 [PMID: 33514628] (Flow Cytometry)

Cross RW, Prasad AN, Borisevich V et al. Use of convalescent serum reduces severity of COVID-19 in nonhuman primates Cell Reports 2021-03-01 [PMID: 33662255]

Chang J, Grimley S, Tran B et al. Uncovering strain- and age- dependent differences in innate immune response to SARS-CoV-2 infection in nasal epithelia using combined short and long-read scRNA-seq bioRxiv 2023-03-09 (ICC/IF)

Gibson SA Establishment of a Transgenic Human Angiotensin Converting Enzyme-2 Hamster Infection Model for the Evaluation of Therapeutics Against Severe Acute Respiratory Syndrome Coronavirus 2 Thesis 2023-01-01 (IHC-P, Hamster)

Basolo A, Poma AM, Macerola E et al. AUTOPSY STUDY OF TESTICLES IN COVID-19: UPREGULATION OF IMMUNE-RELATED GENES AND DOWNREGULATION OF TESTIS-SPECIFIC GENES The Journal of clinical endocrinology and metabolism 2022-10-19 [PMID: 36260523] (IHC-P, Human)

Planes R, Pinilla M, Santoni K et al. Human NLRP1 is a sensor of pathogenic coronavirus 3CL proteases in lung epithelial cells Molecular cell 2022-05-16 [PMID: 35594856] (WB, SARS-CoV-2)

Basolo A, Poma AM, Bonuccelli D et al. Adipose tissue in COVID-19: detection of SARS-CoV-2 in adipocytes and activation of the interferon-alpha response Journal of endocrinological investigation 2022-02-15 [PMID: 35169984] (IF/IHC, SARS-CoV-2)

Gerber PP, Duncan LM, Greenwood EJ et al. A protease-activatable luminescent biosensor and reporter cell line for authentic SARS-CoV-2 infection PLoS pathogens 2022-02-01 [PMID: 35143592]

Bestion E, Zandi K, Belouzard S et al. GNS561 Exhibits Potent Antiviral Activity against SARS-CoV-2 through Autophagy Inhibition Viruses 2022-01-12 [PMID: 35062337] (WB)

Poma AM, Basolo A, Bonuccelli D et al. Activation of Type I and Type II Interferon signaling in SARS-CoV-2-positive thyroid tissue of patients dying from COVID-19 Thyroid : official journal of the American Thyroid Association 2021-09-19 [PMID: 34541878]

Schaller MA, Sharma Y, Dupee Z Et al. Ex vivo SARS-CoV-2 infection of human lung reveals heterogeneous host defense and therapeutic responses JCI insight 2021-08-06 [PMID: 34357881] (IF/IHC, SARS-CoV-2)

More publications at http://www.novusbio.com/NB100-56683

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Products Related to NB100-56683

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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