

# 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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Updated 4/13/2025 v.20.1

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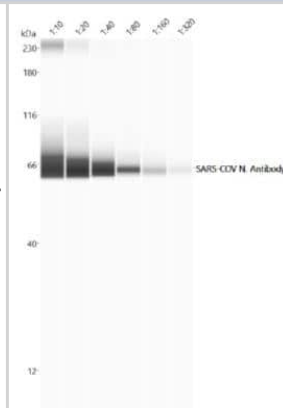
**NB100-56683****SARS Nucleocapsid Protein Antibody - BSA Free**

| <b>Product Information</b>         |   |
|------------------------------------|---|
| <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>                | 0.05% Sodium Azide  |
| <b>Isotype</b>                     | IgG   |
| <b>Purity</b>                      | Protein G purified  |
| <b>Buffer</b>                      | PBS   |
| <b>Product Description</b>         |   |
| <b>Host</b>                        | Rabbit  |
| <b>Gene ID</b>                     | 1489678   |
| <b>Gene Symbol</b>                 | N   |
| <b>Species</b>                     | SARS-CoV, SARS-CoV-2  |
| <b>Specificity/Sensitivity</b>     | The was tested on a human cell line transfected with full-length SARS Nucleocapsid cDNA with a predicted molecular weight of 46 kDa.  |
| <b>Immunogen</b>                   | 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) |
| <b>Product Application Details</b> |   |
| <b>Applications</b>                | Western Blot, Simple Western, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Dual RNAscope ISH-IHC  |
| <b>Recommended Dilutions</b>       | 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 |

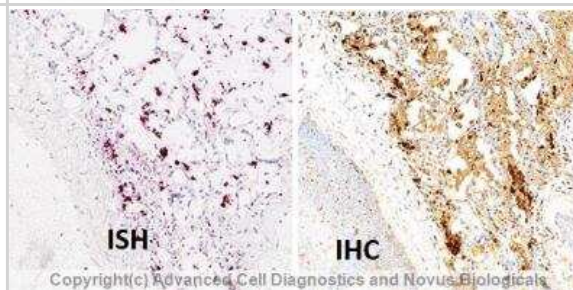


## Images

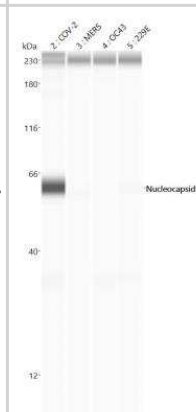
**Simple Western: SARS Nucleocapsid Protein Antibody [NB100-56683]** - Simple Western lane view shows recombinant SARS-CoV-2 Nucleocapsid Protein (Catalog # 10474-CV), loaded at 20 ng/mL. A specific band was detected for SARS-CoV-2 Nucleocapsid Protein at approximately 60 kDa (as indicated) using a serial 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.



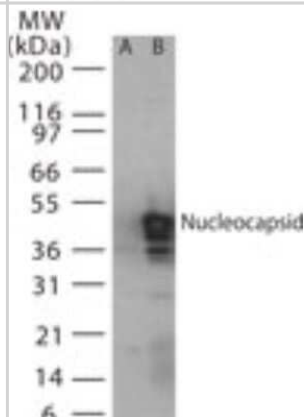
**Dual RNAscope ISH-IHC: SARS Nucleocapsid Protein Antibody [NB100-56683]** - Formalin-fixed paraffin-embedded tissue sections of SARS-CoV-2 infected human lung tissue were probed for SARS-CoV-2 viral RNA (ACD anti-sense specific probe v-nCoV2019-S [848561]); Fast Red chromogen, ACD [322360]. Adjacent 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, Valadão 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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