

# Product Datasheet

## SARS-CoV-2 Nucleocapsid Antibody (84C4a) NBP3-07041

Unit Size: 0.05 mg

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

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**NBP3-07041****SARS-CoV-2 Nucleocapsid Antibody (84C4a)**

<b>Product Information</b>	
<b>Unit Size</b>	0.05 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	84C4a
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG Kappa
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS, 0.1% BSA, 50% Glycerol

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit SARS-CoV-2 Nucleocapsid Antibody (84C4a) (NBP3-07041) is a recombinant monoclonal antibody validated for use in ELISA. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	43740575
<b>Gene Symbol</b>	N
<b>Species</b>	SARS-CoV-2
<b>Reactivity Notes</b>	Highly-specific to SARS-CoV-2 nucleoprotein; does not cross-react with nucleoprotein from SARS-CoV or other coronaviruses
<b>Immunogen</b>	SARS-CoV-2 nucleoprotein (NP) specific peptide

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot, ELISA, Immunohistochemistry
<b>Application Notes</b>	Used for specific, high-sensitivity detection of SARS-CoV-2 nucleocapsid protein (NP).



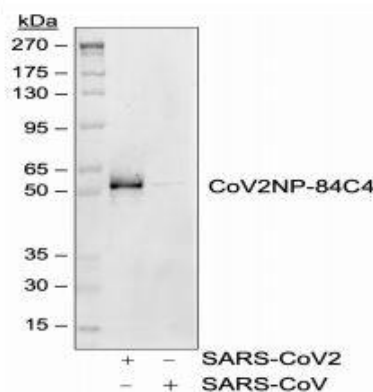
## Images

**Immunohistochemistry: SARS-CoV-2 Nucleocapsid Antibody (84C4a) [NBP3-07041] - Immunohistochemistry Validation of SARS-CoV-2 (COVID-19) Nucleocapsid in COVID-19 Patient Lung**

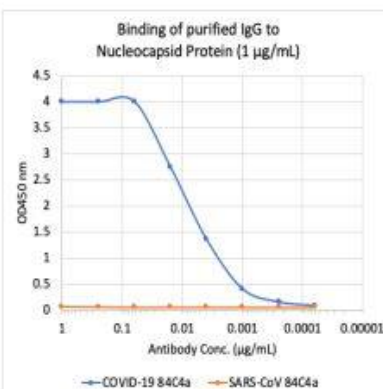
Immunohistochemical analysis of paraffin-embedded COVID-19 patient lung tissue using anti- SARS-CoV-2 (COVID-19) Nucleocapsid antibody (5 ng/mL). Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. 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 Nucleocapsid protein was observed in the macrophages of COVID-19 patient lung, but not in non-COVID-19 patient lung.



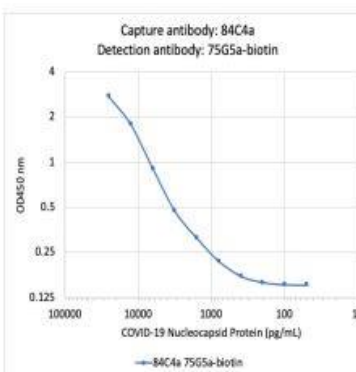
**Western Blot: SARS-CoV-2 Nucleocapsid Antibody (84C4a) [NBP3-07041] - Western blot analysis of SARS-CoV2 and SARS-CoV nucleocapsid protein (50 ng) probed with 1 ug/mL CoV2NP rabbit monoclonal antibody (84C4a), CoV2NP-84C4.**



**ELISA: SARS-CoV-2 Nucleocapsid Antibody (84C4a) [NBP3-07041] - Microtiter wells were coated with SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) and SARS-CoV NP at 1 ug/mL. Purified rabbit monoclonal antibody 84C4a was serially diluted 1:2 starting at 1 ug/mL, and shows very strong and specific binding to COVID-19 NP antigen, with no significant cross-reactivity to SARS-CoV NP antigen.**



**ELISA: SARS-CoV-2 Nucleocapsid Antibody (84C4a) [NBP3-07041] - A sandwich ELISA was performed using SARS-CoV-2 (COVID-19) Nucleocapsid Protein (NP) specific rabbit monoclonal antibodies: 84C4a as a capture antibody and 75G5a-biotin as a detection antibody. COVID-19 NP was serially diluted 1:2 starting at 25 ng/mL. Rabbit monoclonal antibodies 84C4a and 75G5a-biotin detected COVID-19 NP antigen at very high sensitivity as low as 49 pg/mL (4.9 pg).**





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### **Products Related to NBP3-07041**

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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]
NBP3-07087	Recombinant SARS-CoV-2 Nucleocapsid His (C-Term) Protein

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### **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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