

# Product Datasheet

## Influenza A H1N1 Nucleoprotein Antibody - BSA Free NB100-56570

Unit Size: 0.1 mg

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

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 6

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**NB100-56570**

Influenza A H1N1 Nucleoprotein Antibody - BSA Free

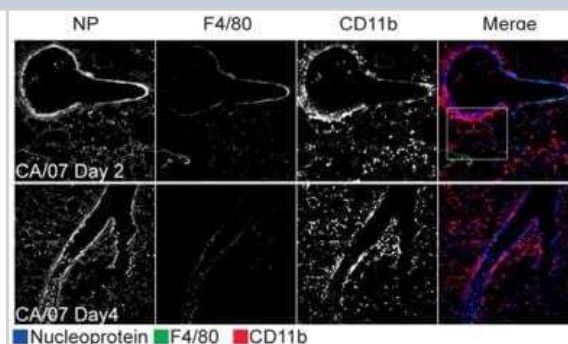
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit Influenza A H1N1 Nucleoprotein Antibody - BSA Free (NB100-56570) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Influenza A H1N1 Nucleoprotein Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Species	Influenza A Virus H1N1, Virus
Specificity/Sensitivity	Influenza A virus (A/Puerto Rico/8/34/Mount Sinai (H1N1) segment 5) nuclear protein.
Immunogen	Recombinant Influenza A H1N1 Nucleoprotein.

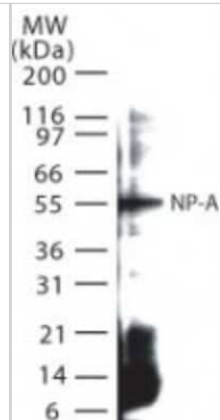
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot 1-3 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry reported in scientific literature (PMID 24086762), Immunohistochemistry-Paraffin reported in scientific literature (PMID 16873262)

**Images**

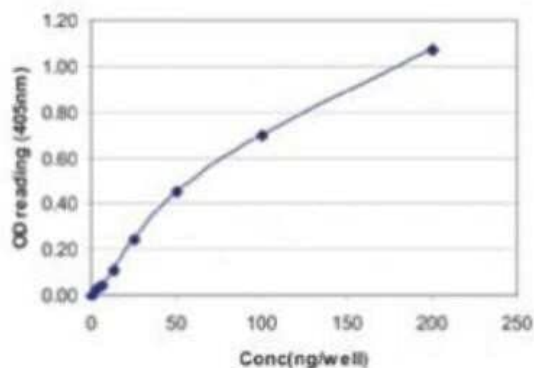
Immunohistochemistry: Influenza A H1N1 Nucleoprotein Antibody [NB100-56570] - CA/07 and NL/602 induced qualitatively similar expression of nucleoprotein in airway epithelial cells but distinct recruitment of F4/80+ cells and CD11b+ cells. Frozen lung sections from naive mice stained with anti-influenza nucleoprotein (blue), anti-F4/80 antigen (green) or anti-CD11b (red). Scale bars represent 100um. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0076708>) licensed under a CC-BY license.



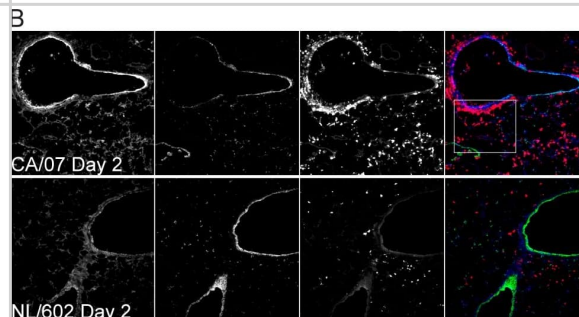
Western Blot: Influenza A H1N1 Nucleoprotein Antibody [NB100-56570] - analysis of Influenza A in 50 ngs of recombinant protein using this antibody.



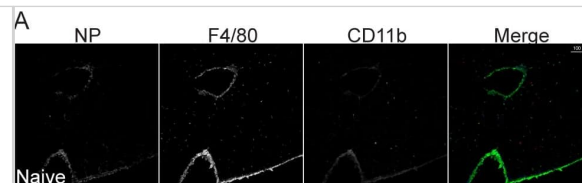
ELISA: Influenza A H1N1 Nucleoprotein Antibody [NB100-56570] - Influenza A standard curve. Influenza A monoclonal antibody, clone 2F205 was used as the capture antibody. Influenza A polyclonal antibody (NB100-56570) was used as the detection antibody. Recombinant Influenza A Nucleoprotein was used as the protein standard. Researchers should empirically determine the optimal antibody concentrations for their ELISA assays.



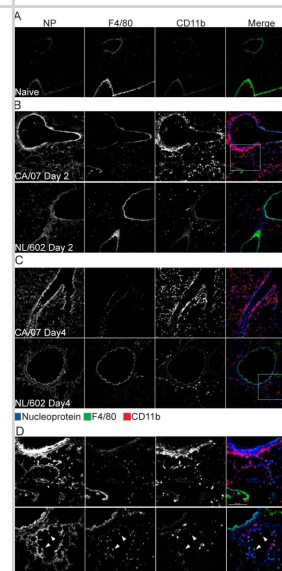
Immunocytochemistry/ Immunofluorescence: Influenza A H1N1 Nucleoprotein Antibody [NB100-56570] - CA/07 & NL/602 induced qualitatively similar expression of nucleoprotein in airway epithelial cells but distinct recruitment of F4/80+ cells & CD11b+ cells. Frozen lung sections collected two (B) & four (C) days post infection were stained with anti-influenza nucleoprotein (blue), anti-F4/80 antigen (green) or anti-CD11b (red). Both CA/07 & NL/602 induced expression of viral nucleoprotein prominently on bronchiole epithelial cells & modest expression on alveolar epithelial cells. F4/80+ & CD11b+ cells were detected in greater abundance upon infection with NL/602 compared to naïve lung. In contrast, CA/07 infection yielded substantially greater recruitment of CD11b+ cells while F4/80+ cells were minimally detected. Insets from CA/07 & NL/602 shown in 40X objective (D). Scale bars represent 100µm. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0076708>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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## Publications

Kim HK, Kang JA, Lyoo KS et al. Severe acute respiratory syndrome coronavirus 2 and influenza A virus co-infection alters viral tropism and haematological composition in Syrian hamsters *Transboundary and emerging diseases* 2022-09-01 [PMID: 35648595] (IHC-P, Hamster)

Leirs K, Tewari Kumar P, Decrop D et al Leirs K, Tewari Kumar P, Decrop D et al. Bioassay Development for Ultrasensitive Detection of Influenza A Nucleoprotein Using Digital ELISA *Anal Chem* 2016-08-15 [PMID: 27487722] (ICC/IF, Influenza A Virus H1N1)

Le Vy L, Courtney Cynthia L, Steel John et al. Closely related influenza viruses induce contrasting respiratory tract immunopathology *PLoS One* 2013-09-26 [PMID: 24086762] (ICC/IF, Influenza A Virus H1N1)

Wu W, Sankhala RS, Florio TJ et al. Synergy of two low-affinity NLSs determines the high avidity of influenza A virus nucleoprotein NP for human importin  $\alpha$  isoforms *Sci Rep* 2017-09-12 [PMID: 28900157] (WB)

Thompson CI, Barclay WS, Zambon MC, Pickles RJ. Infection of human airway epithelium by human and avian strains of influenza a virus. *J Virol.* 2006-08-01 [PMID: 16873262] (IHC-P)

Nichols JE, Cortiella J, Lee J et al. In vitro analog of human bone marrow from 3D scaffolds with biomimetic inverted colloidal crystal geometry. *Biomaterials.* 2009-02-01 [PMID: 19042018]

### Details:

Products cited for ELISA (Fig 3J): 1. Recombinant Influenza A Nucleoprotein (A/NP-A: IMR-274), Protein Standard 2. Influenza A/NP-A pAb (IMX-5214), Capture antibody 3. Influenza A/NP-A mAb (IMG-5134A), Detection antibody



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General: [novus@novusbio.com](mailto:novus@novusbio.com)

### **Products Related to NB100-56570**

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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]
NBP2-24891	Rabbit IgG Isotype Control

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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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