

# Product Datasheet

## Avian Influenza A H6N1 Nucleoprotein Antibody - BSA Free NB100-56572

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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**NB100-56572**

Avian Influenza A H6N1 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

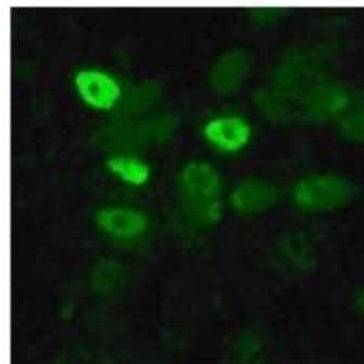
Product Description	
Host	Rabbit
Species	Virus
Specificity/Sensitivity	The amino acid sequence used as immunogen has 100% identity to the H5N1 virus in chicken, duck and swine.
Immunogen	A synthetic peptide corresponding to amino acids 428-441 (AFTGNTEGRTSDMR) of avian flu nucleoprotein were used as the immunogen, GenBank no ADC34563.1.

Product Application Details	
Applications	ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	ELISA 0.1-1 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10, Immunohistochemistry-Paraffin 1:10-1:500. Use reported in scientific literature (Thompson et al (2006))
Application Notes	This failed by western blot on the recombinant fusion protein.

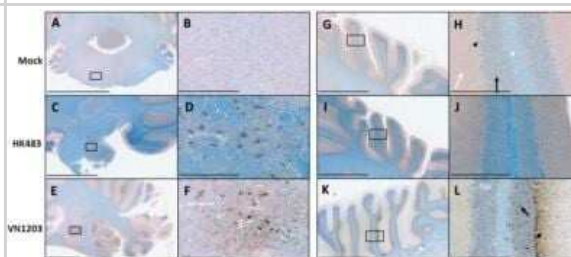


## Images

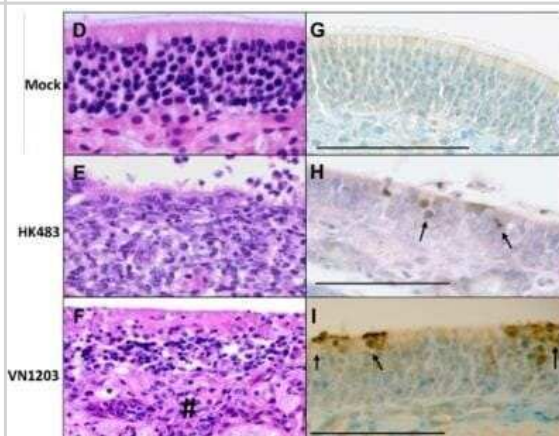
Immunocytochemistry/Immunofluorescence: Avian Influenza A H6N1 Nucleoprotein Antibody [NB100-56572] - Staining of influenza-infected MDCK cells at 1:10 dilution. Image Courtesy of Catherine Thompson, The University of Reading



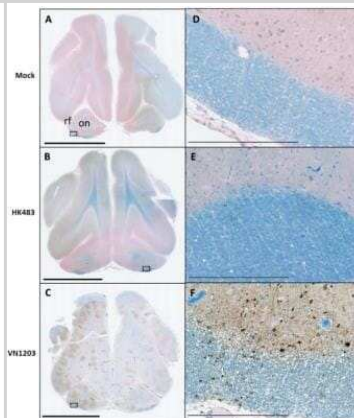
Immunohistochemistry: Avian Influenza A H6N1 Nucleoprotein Antibody [NB100-56572] - VN1203 infected & replicated in Purkinje cells, deep cerebellar nuclei of the cerebellum. Representative sections of cerebellum of ferrets instilled with allantoic fluid (A,B,G,H), HK483 (C,D,I,J), VN1203 (E,F,K,L). Viral antigen detected with IMGENEX 5187-A for avian influenza A NP & visualized with DAB. Brown stain indicates presence of virus. Counterstained with Luxol fast blue. (B-F) higher magnification of boxes in A-E respectively. H) White arrow indicates molecular layer, black arrow indicates granule layer, black arrowhead indicates a Purkinje cell, white arrowhead indicates Purkinje cell axons. L) Arrow indicate infected granule cell and arrowhead indicates infected Purkinje cell. Scale bars represent: A,C,E,G,I, - 2 mm; B,D,F,H,J,L - 300 um. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0046605](https://doi.org/10.1371/journal.pone.0046605)) licensed under a CC-BY license.



Immunohistochemistry: Avian Influenza A H6N1 Nucleoprotein Antibody [NB100-56572] - VN1203 induced significant pathology despite similar nasal turbinate titers in ferrets infected with either virus. Viral titers of homogenized nasal turbinates were graphed as mean  $\pm$  SEM for VN1203 or HK483 infected ferrets. D-I. Representative samples of nasal turbinate tissue of ferrets instilled with allantoic fluid (D,G), HK483 (E,H), or VN1203 (F,I). D-F were stained with H&E, G-I were stained with anti-avian influenza NP and counterstained with Luxol fast blue. F. # indicates inflammatory cells infiltrating the underlying stroma. H,I. Arrows point to H5N1 infected cells. Scale bars: D-F, 300 um; G-I, 100 um. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0046605](https://doi.org/10.1371/journal.pone.0046605)) licensed under a CC-BY license.



Immunohistochemistry: Avian Influenza A H6N1 Nucleoprotein Antibody [NB100-56572] - VN1203 infection in the ferret brain was multifocal and evident in the olfactory tract. Representative sections from the frontal lobe of ferrets intranasally instilled with allantoic fluid (A,D), on: olfactory nucleus, rf: rhinal fissure, HK483 (B,E) or VN1203 (C,F) were stained for viral antigen with IMGENEX 5187-A for avian influenza A NP and visualized with DAB. Brown stain indicates the presence of virus. Counterstained with Luxol fast blue. Scale bars: A-C) 5 mm, D-F) 300 um. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0046605](https://doi.org/10.1371/journal.pone.0046605)) licensed under a CC-BY license.



## Publications

Mitchell H, Levin D, Forrest S et al. Higher level of replication efficiency of 2009 (H1N1) pandemic influenza virus than those of seasonal and avian strains: kinetics from epithelial cell culture and computational modeling. J Virol. 2011-01-01 [PMID: 21068247]

Plourde JR, Pyles JA, Layton RC et al. Neurovirulence of H5N1 infection in ferrets is mediated by multifocal replication in distinct permissive neuronal cell regions. PLoS One. 2012-01-01 [PMID: 23056366]

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)





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### **Products Related to NB100-56572**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-56572PEP	Avian Influenza A H6N1 Nucleoprotein Antibody Blocking Peptide

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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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