

Product Datasheet

Recombinant Virus Influenza A nucleoprotein Protein NBP2-24986

Unit Size: 0.5 mg

Store at -80C. Avoid freeze-thaw cycles.

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NBP2-24986**Recombinant Virus Influenza A nucleoprotein Protein**

Product Information	
Unit Size	0.5 mg
Concentration	1 mg/ml
Storage	Store at -80C. Avoid freeze-thaw cycles.
Preservative	No Preservative
Purity	Chromatography
Buffer	20 mM HEPES, pH7.0, 1.5 mM MgCl ₂ , 0.2 mM EDTA, 0.5 mM PMSF, and 0.5 mM DTT.
Target Molecular Weight	55 kDa
Product Description	
Species	Virus
Preparation Method	A cDNA coding for Human Influenza-A (Influenza A virus (A/Puerto Rico/8/34/Mount Sinai (H1N1)) segment 5) nuclear protein NP was cloned into a Baculovirus expression vector. The recombinant HNP-A was purified by proprietary chromatographic techniques.
Notes	For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
Product Application Details	
Applications	Dot Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, SDS-Page
Recommended Dilutions	ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Dot Blot, SDS-Page 2-10 ug/lane
Application Notes	Use in DB reported in scientific literature (PMID:33348840). This protein migrates as a 55 kDa band in SDS-PAGE. Use in Immunohistochemistry-Paraffin reported in scientific literature (PMID 24657788). The protein concentration was estimated in a BioRad assay. The absolute purity of the recombinant protein preparation has not been established.

Publications

Michellini Z, Minkoff JM, Yang J et al. Integrase-Defective Lentiviral Vectors for Delivery of Monoclonal Antibodies against Influenza Viruses 2020-12-17 [PMID: 33348840] (Cytometric Bead Assay Standard)

Panyasing Y, Goodell C, Kittawornrat A et al. Influenza A Virus Surveillance Based on Pre-Weaning Piglet Oral Fluid Samples. Transbound Emerg Dis. 2014-12-09 [PMID: 25488821]

Shriner Susan A, VanDalen Kaci K, Mooers Nicole L et al. Low-pathogenic avian influenza viruses in wild house mice. PLoS One. 2012-01-01 [PMID: 22720076] (ELISA)

Lin Feng, Shen Xuefei, Kichaev Gleb et al. Optimization of electroporation-enhanced intradermal delivery of DNA vaccine using a minimally invasive surface device. Hum Gene Ther Methods. 2012-06-01 [PMID: 22794496] (ELISA, Mouse)

Broderick Kate E, Kardos Thomas, McCoy Jay R et al. Piezoelectric permeabilization of mammalian dermal tissue for in vivo DNA delivery leads to enhanced protein expression and increased immunogenicity. Hum Vaccin. 2011-01-01 [PMID: 21263230] (ELISA, Bovine)

Yeo Sj, Huong Dt, Hong Nn et al. Rapid and Quantitative Detection of Zoonotic Influenza A Virus Infection Utilizing Coumarin-derived dendrimer-based Fluorescent Immunochromatographic Strip Test (FICT). Theranostics. 2014-10-06 [PMID: 25285172]

He XS, Holmes TH, Sanyal M et al. Distinct patterns of B-cell activation and priming by natural influenza infection versus inactivated influenza vaccination. J. Infect. Dis. 2014-10-21 [PMID: 25336731] (In-vitro)

Singh S, Nehete PN, Yang G et al. Enhancement of Mucosal Immunogenicity of Viral Vectored Vaccines by the NKT Cell Agonist Alpha-Galactosylceramide as Adjuvant. Vaccines. 2014-10-10 [PMID: 25553254] (In Vivo, In vitro)

Details:
Influenza A nucleoprotein Protein (NP) used for in vitro and in vivo experiments involving Rhesus Macaques / Monkeys model.

Luetkens T, Kobold S, Cao Y et al. Functional autoantibodies against SSX-2 and NY-ESO-1 in multiple myeloma patients after allogeneic stem cell transplantation. Cancer Immunol Immunother. 2014-07-31 [PMID: 25078248]

Fontana JM, Christos PJ, Michellini Z et al. Mucosal Immunization with Integrase-Defective Lentiviral Vectors Protects against Influenza Virus Challenge in Mice. PLoS ONE. 2014-05-14 [PMID: 24824623] (ELISA, Mouse)

Details:
ELISA: Mouse serum from mice inoculated with IDLV-NP (lentiviral vector expression the influenza virus nucleoprotein), Figs 4, 5. The Influenza A recombinant nucleoprotein was used for an NP-specific serum IgG ELISA. 96-well microplates were coated with

Sasaki S, Holmes TH, Albrecht RA et al. Distinct cross-reactive B-cell responses to live attenuated and inactivated influenza vaccines. J. Infect. Dis. 2014-03-27 [PMID: 24676204] (ELISA, Human)

Details:
Fig 7A, ELISPOT plates were coated with the recombinant influenza A virus nuclear protein at 4.5 ug/ml.

Kwon D, Shin K, Kim SJ et al. Mammalian pathogenesis of oseltamivir-resistant pandemic (H1N1) 2009 influenza virus isolated in South Korea. Virus Res. 2014-03-19 [PMID: 24657788] (IHC-P)

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