

Datasheet for 600-401-EX8**Swine H1N1 Nucleocapsid Protein Antibody****Overview**

Description:	Anti-Swine H1N1 Nucleocapsid Protein (RABBIT) Antibody - 600-401-EX8
Item No.:	600-401-EX8
Size:	100 µg
Applications:	ELISA, IF
Reactivity:	Virus
Host Species:	Rabbit

Product Details

Background: Influenza A virus is a major public health threat, killing more than 30, 000 people per year in the USA. In early 2009, a novel swine-origin influenza A (H1N1) virus (S-OIV) was identified in specimens obtained from patients in Mexico and the United States. The influenza A virus polymerase transcribes and replicates eight virion RNA (vRNA) segments, among which the nucleocapsid protein (NP), thought to control whether mRNA or cRNA is produced. The nucleoprotein (NP), which has multiple functions during the virus life cycle, possesses regions that are highly conserved among influenza A, B, and C viruses. It was recently found several NP mutations that affected the efficient incorporation of multiple viral-RNA (vRNA) segments into progeny virions even though a single vRNA segment was incorporated efficiently. This indicates that the respective conserved amino acids in NP may be critical for the assembly and/or incorporation of sets of eight vRNA segments.

Synonyms:	Swine H1N1 Nucleocapsid Protein Antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NP
Reactivity:	Virus
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-NP antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide from. The swine-Origin H1N1 NP protein.
Purity/Specificity:	Anti-Swine H1N1 Nucleocapsid Protein Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for the seasonal H1N1 influenza NP and will not recognize the corresponding NP from the seasonal H1N1 influenza (A/Brisbane/97/2007 (H1N1)).
Relevant Links:	• UniProtKB - C4AL25 • NCBI - ACQ76305

Application Details

Tested Applications:	ELISA, IF
Application Note:	Anti-Swine H1N1 Nucleocapsid Protein Antibody has been tested for use in ELISA and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 56 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IF:	20 µg/mL

Formulation

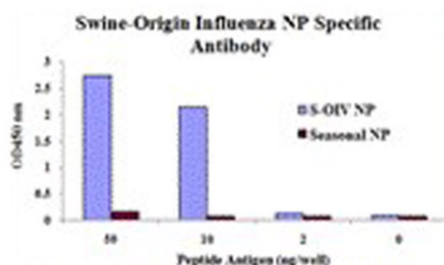
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ELISA

ELISA results of Anti-Swine H1N1 Nucleocapsid Protein Antibody.

Swine-origin Nucleocapsid Protein antibody specifically recognizes (S-OIV NP) swine-origin influenza virus A H1N1 [light purple] but not (seasonal NP) seasonal influenza virus A H1N1 Nucleocapsid protein [dark purple].

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.