

Datasheet for 600-401-EG4**Seasonal H1N1 Nucleocapsid Protein Antibody****Overview**

Description:	Anti-Seasonal H1N1 Nucleocapsid Protein (RABBIT) Antibody - 600-401-EG4
Item No.:	600-401-EG4
Size:	100 µg
Applications:	ELISA
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:	Seasonal 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 seasonal H1N1 NP protein.
Purity/Specificity:	Anti-Seasonal 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 sequence from the swine-origin H1N1 influenza (A/California/14/2009 (H1N1)).
Relevant Links:	• UniProtKB - I3Q5J8 • NCBI - AFK14863

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Seasonal H1N1 Nucleocapsid Protein Antibody has been tested for use in ELISA. 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

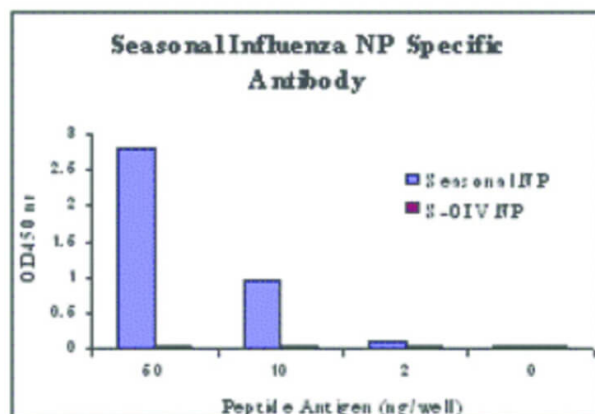
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/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 of Seasonal H1N1 Nucleocapsid Protein antibody.
 Antigen: BSA conjugates of Seasonal H1N1 Nucleocapsid Protein. Coating amount: 60, 10, 2, and 0 ng per well.
 Primary antibody: Seasonal H1N1 Nucleocapsid Protein antibody at 1 µg/mL. Dilution series: 2-fold. Mid-point concentration: 5 ng/mL Seasonal H1N1 Nucleocapsid Protein antibody. Secondary antibody: Peroxidase rabbit secondary antibody at 1:20,000. Substrate: TMB (p/n TMBE-0100).

Disclaimer

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