

Datasheet for 600-401-EX6**Swine H1N1 Neuraminidase Antibody****Overview**

Description:	Anti-Swine H1N1 Neuraminidase (RABBIT) Antibody - 600-401-EX6
Item No.:	600-401-EX6
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 was identified in specimens obtained from patients in Mexico and the United States. The virus spread quickly around the world and on June 11, 2009, the World Health Organization declared it a pandemic. Influenza A virus has one of sixteen possible Hemagglutinin (HA) surface proteins and one of nine possible Neuraminidase (NA) surface proteins. The Hemagglutinin protein facilitates viral attachment while Neuraminidase is involved in viral release. These proteins also elicit immune responses that prevent infection or independently reduce viral replication. The genetic make-up of this swine flu virus is unlike any other: it is an H1N1 strain that combines a triple assortment first identified in 1998 including human, swine, and avian influenza with two new pig H3N2 virus genes from Eurasia, themselves of recent human origin. The distinct antigenic properties of the new swine influenza virus compared with seasonal influenza A (H1N1) virus suggest that human immunity against new swine influenza virus is limited, although the age distribution of reported cases suggests some degree of protection in older age groups.

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

Target Details

Gene Name:	NA
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Reactivity:	Virus
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Neuraminidase antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide from the novel swine influenza Neuraminidase protein. This antibody is a cognate pair with product 5247.
Purity/Specificity:	Anti-Swine H1N1 Neuraminidase Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for the novel swine influenza Neuraminidase and will not recognize the corresponding Neuraminidase sequence from the seasonal H1N1 influenza (A/Georgia/20/2006 (H1N1)). Will not cross-react with peptide corresponding to the seasonal influenza (H1N1) Neuraminidase.
Relevant Links:	• NCBI - ACQ76308 • UniProtKB - B1AGS8

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Swine H1N1 Neuraminidase Antibody has been tested for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 52 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:	1.0 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

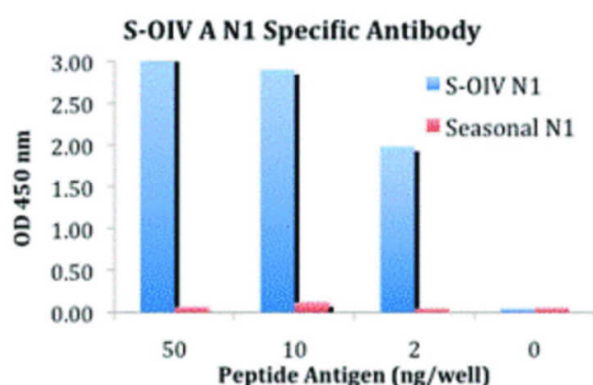
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

Images



ELISA

ELISA of Swine H1N1 Neuraminidase antibody. Antigen: BSA conjugates of Swine H1N1 Neuraminidase. Coating amount: 50, 10, 2 and 0 ng per well. Primary antibody: Swine H1N1 Neuraminidase antibody at 1 µg/mL. Dilution series: 2-fold. Mid-point concentration: 5 ng/mL Swine H1N1 Neuraminidase antibody. Secondary antibody: Peroxidase rabbit secondary antibody at 1:20,000. Substrate: TMB (p/n TMBE-0100).

Disclaimer

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