

Datasheet for 600-401-G97**H1N1 Neuraminidase Antibody****Overview**

Description:	Anti-H1N1 Neuraminidase (RABBIT) Antibody - 600-401-G97
Item No.:	600-401-G97
Size:	100 µg
Applications:	ELISA
Reactivity:	Virus
Host Species:	Rabbit

Product Details

Background:	H1N1 Neuraminidase Antibody detects seasonal influenza (H1N1) Neuraminidase protein and the novel swine influenza Neuraminidase protein. 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. Anti-H1N1 Neuraminidase antibodies are ideal for investigators involved in infectious disease.
Synonyms:	Influenza A (H1N1) Neuraminidase Antibody, Influenza A (H1N1) Neuraminidase, Influenza N1, flu N1, NA
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Virus
Immunogen Type:	Conjugated Peptide
Immunogen:	H1N1 Neuraminidase Antibody was produced from whole rabbit serum prepared by repeated immunizations with synthetic peptides from the seasonal influenza (H1N1) Neuraminidase protein and the novel swine influenza Neuraminidase protein. The antibody recognizes both variants.
Purity/Specificity:	Anti-H1N1 Neuraminidase Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with H1N1 Neuraminidase with virus based on 100% homology with the immunizing sequence. Cross-reactivity with H1N1 Neuraminidase from other sources has not been determined. This antibody will recognize the Neuraminidase from the both the seasonal influenza (H1N1) and swine-origin influenza virus (A/California/14/2009 (H1N1)).
Relevant Links:	• NCBI - AAC51226 • UniProtKB - O00220 • GeneID - 8797

Application Details

Tested Applications:	ELISA
Application Note:	Anti-H1N1 Neuraminidase Antibody is tested for use in ELISA. Expect a band approximately ~51.6 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1 ug/mL

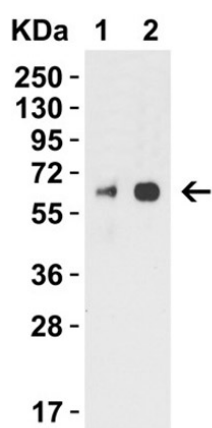
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 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



Western Blot

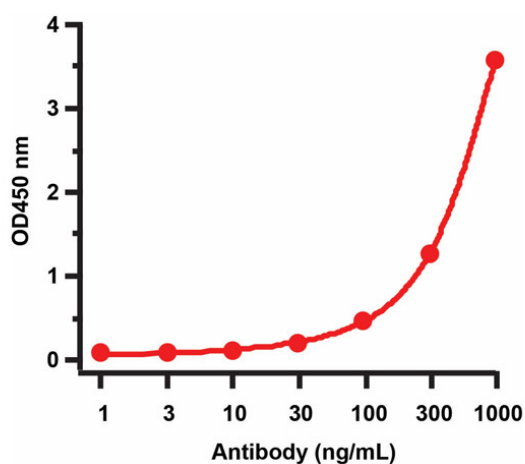
Western Blot of Anti-H1N1 Neuraminidase.

Load: 50ng (Lane 1) and 100ng (Lane 2) H1N1

Neuraminidase recombinant protein.

Primary antibody: Anti-H1N1 NA antibody at 2 µg/mL for 1h incubation at RT in 5% NFDM/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



ELISA

ELISA of Anti-H1N1 Neuraminidase.

Coating Antigen: H1N1 Neuraminidase recombinant protein at 2 µg/mL incubated at 4 °C overnight.

Detection Primary antibody: Anti-H1N1 Neuraminidase antibody at 1:1000 ng/mL at RT for 1 hr.

Secondary Primary antibody: Goat anti-rabbit at 1:10,000, incubated at RT for 1 hr.

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.