Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

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 |

| | |
|---|---|
| **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.<br><br>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<br>• 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

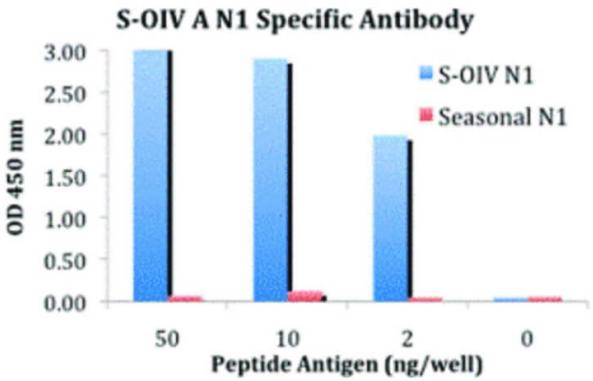
| | |
|---|---|
| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/ml by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

| | |
|---|---|
| **Shipping Condition:** | Wet Ice |

| | |
|---|---|
| **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

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.