

Datasheet for 600-401-G81**Avian Influenza Neuraminidase Antibody****Overview**

Description:	Anti-Avian Influenza Neuraminidase (RABBIT) Antibody - 600-401-G81
Item No.:	600-401-G81
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. Novel influenza virus strains emerge periodically to which humans have little or no immunity, resulting in devastating pandemics. Influenza A can exist in a variety of animals; however it is in birds that all subtypes can be found. These subtypes are classified based on the combination of the virus coat glycoproteins hemagglutinin (HA) and neuraminidase (NA) subtypes. During 1997, an H5N1 avian influenza virus was determined to be the cause of death in 6 of 18 infected patients in Hong Kong. There was some evidence of human to human spread of this virus, but it is thought that the transmission efficiency was fairly low. Although it has been known that cleavage site and glycosylation patterns of the HA protein play important roles in determining the pathogenicity of H5 avian influenza viruses, it has only recently been shown that an additional glycosylation site within the globular head of the NA protein also contributes to the high virulence of the H5N1 virus. Anti-Avian Influenza Neuraminidase antibodies are ideal for investigators involved in infectious disease research.

Synonyms:	Neuraminidase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Virus
Immunogen Type:	Conjugated Peptide

Immunogen:	Avian Influenza Neuraminidase Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to amino acids at the c-terminus of the avian influenza neuraminidase protein. Efforts were made to use relatively conserved regions as the antigen.
Purity/Specificity:	Anti-Avian Influenza Neuraminidase Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with Avian Influenza Neuraminidase with Virus based on 100% homology with the immunizing sequence. Cross-reactivity with Avian Influenza Neuraminidase from other sources has not been determined.
Relevant Links:	• NCBI - CAC95053 • UniProtKB - Q710U6

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Avian Influenza Neuraminidase Antibody is tested for use in ELISA. Expect a band approximately ~51.4 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 µg/ml

Formulation

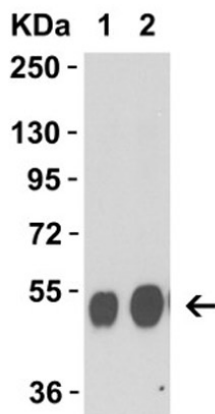
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

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



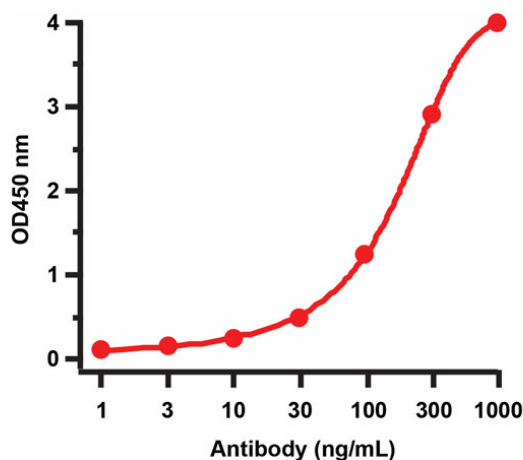
Western Blot

Western Blot with Avian Influenza NA Protein.

Load: Avian Influenza Neuraminidase recombinant protein, Lane 1: 50ng, Lane 2: 100ng.

Primary antibody: Anti-Avian Influenza antibody at 1µg/mL for 1h at RT in 5% NFDm/TBST.

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



ELISA

ELISA with Avian Influenza NA Protein.

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

Detection antibody: Anti-Avian Influenza NA antibody at 1:1000 ng/mL for 1hr at RT.

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

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.