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Datasheet for 600-401-Z11

Avian Influenza Hemagglutinin Antibody

Overview

Description:	Anti-Avian Influenza Hemagglutinin (RABBIT) Antibody - 600-401-Z11
Item No.:	600-401-Z11
Size:	100 µg
Applications:	ELISA, WB
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 caused by genetic drift and viral recombination 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. HA interacts with cell surface proteins containing oligosaccharides with terminal sialyl residues. Virus isolated from a human infected with the H5N1 strain in 1997 could bind to oligosaccharides from human as well as avian sources, indicating its species-jumping ability.
Synonyms:	Avian Influenza Hemagglutinin Antibody,
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NA
Reactivity:	Virus

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Avian influenza hemagglutinin antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 15 amino acids at the N-terminus of the avian influenza hemagglutinin protein. Efforts were made to use relatively conserved regions of the viral sequence as the antigen.
Purity/Specificity:	Anti-Avian Influenza Hemagglutinin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Avian Influenza Hemagglutinin from other sources has not been determined.
Relevant Links:	• UniProtKB - Q692M2 • NCBI - AAT76166

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Avian Influenza Hemagglutinin Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 64 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
WB:	1 µg/mL

Formulation

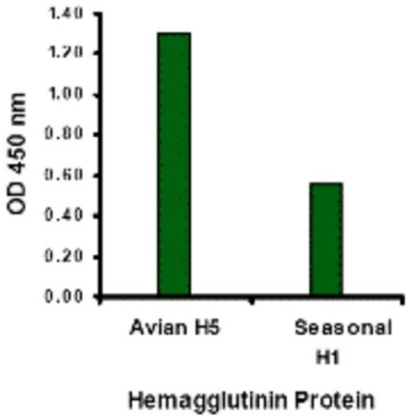
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

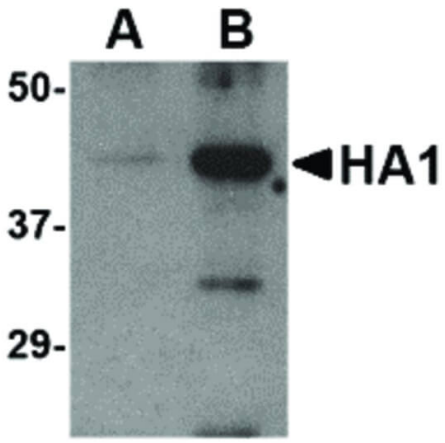
Shipping Condition:	Dry Ice

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
Hemagglutinin antibody at 1 µg/mL specifically recognizes Avian H5N1 influenza virus but not seasonal influenza virus A H1N1 Hemagglutinin protein.



Western Blot
Western Blot of recombinant HA1 with Avian Influenza Hemagglutinin antibody. Lane A: Avian Influenza Hemagglutinin antibody at 5 ng. Lane B: Avian Influenza Hemagglutinin antibody at 25 ng. Load: 35 µg per lane. Primary antibody: Avian Influenza Hemagglutinin antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 128 kDa, 128 kDa for Avian Influenza Hemagglutinin. Other band(s): Avian Influenza Hemagglutinin splice variants and isoforms.

Disclaimer

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