

Datasheet for 600-101-Z08

Avian Influenza Hemagglutinin 2 Antibody

Overview

Description:	Anti-Avian Influenza Hemagglutinin 2 (GOAT) Antibody - 600-101-Z08
Item No.:	600-101-Z08
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Virus
Host Species:	Goat

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 2 Antibody,
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HA
Reactivity:	Virus

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Avian Influenza Hemagglutinin 2 antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to 12 amino acids near the N-terminus of the Hemagglutinin protein. Efforts were made to use relatively conserved regions of the viral sequence as the antigen.
Purity/Specificity:	Anti-Avian Influenza Hemagglutinin 2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Avian Influenza Hemagglutinin 2 from other sources has not been determined.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - Q692M2• NCBI - AAT76166

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Avian Influenza Hemagglutinin 2 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:	1:10,000
WB:	1 µg/mL

Formulation

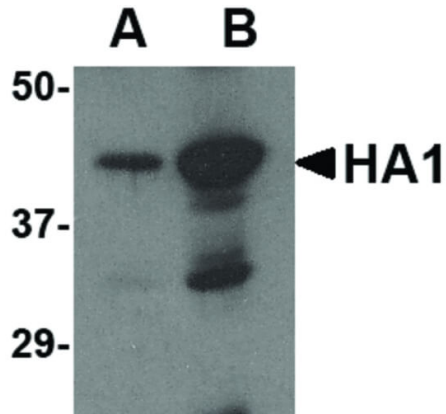
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

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



Western Blot

Western Blot of Avian Influenza Hemagglutinin 2 antibody. Lane A: 5 ng of recombinant HA1 with Avian Influenza Hemagglutinin 2 antibody. Lane B: 25 ng of recombinant HA1 with Avian Influenza Hemagglutinin 2 antibody. Load: 35 µg per lane. Primary antibody: Avian Influenza Hemagglutinin 2 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase goat secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 64 kDa, 45 kDa for Avian Influenza Hemagglutinin 2. Other band(s): Avian Influenza Hemagglutinin 2 splice variants and isoforms.

Disclaimer

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