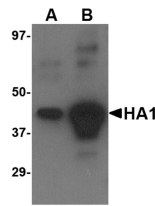


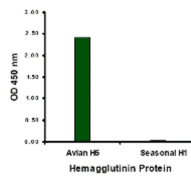


Avian Influenza H5N1 Hemagglutinin (IN2) Antibody

Cat. No.: 3913



Western blot analysis of (A) 5 ng and (B) 25 ng of recombinant HA1 with Avian Influenza Hemagglutinin 4 antibody at 1 µg/mL.



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

Ψ Specifications

HOST SPECIES:	Goat
SPECIES REACTIVITY:	Virus
IMMUNOGEN:	<p>Avian Influenza H5N1 Hemagglutinin (IN2) Antibody was raised against a synthetic peptide corresponding to 10 amino acids near the center of the Hemagglutinin protein.</p> <p>Efforts were made to use relatively conserved regions of the viral sequence as the antigen.</p> <p>The immunogen is located within amino acids 260 - 310 of Avian Influenza H5N1 Hemagglutinin (IN2) Antibody.</p>
TESTED APPLICATIONS:	ELISA

APPLICATIONS:	Avian Influenza Hemagglutinin 4 antibody can be used for the detection of the Hemagglutinin protein from the H5N1 strain of avian influenza A in ELISA. It will detect 10 ng of free peptide at 1 µg/mL.
POSITIVE CONTROL:	1) Cat. No. 95-101 - H5 Hemagglutinin HA1 Recombinant Protein

Ψ Properties

PURIFICATION:	Avian Influenza Hemagglutinin 4 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	Avian Influenza Hemagglutinin 4 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	Avian Influenza Hemagglutinin 4 antibody can be stored at 4 °C for three months and -20 °C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Ψ Additional Info

OFFICIAL SYMBOL:	HA
ALTERNATE NAMES:	Avian Influenza Hemagglutinin 4 Antibody:
ACCESSION NO.:	AAT76166
PROTEIN GI NO.:	50365729
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ Background and References

BACKGROUND:	<p>Avian Influenza Hemagglutinin 4 Antibody: 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.</p>
REFERENCES:	<p>1) Thompson WW, Shay DK, Weintraub, et al. Mortality associated with influenza and respiratory syncytial virus in the United States. JAMA 2003; 289:179-186.</p>
	<p>2) Alexander DJ. A review of avian influenza. Proceedings of the European Society for Veterinary Virology (ESVV) Symposium on Influenza Viruses of Wild and Domestic Animals. Vet. Microbiol. 2000; 74:3-13.</p>
	<p>3) Shortridge KF, Zhou NN, Guan Y, et al. Characterization of avian H5N1 influenza viruses from poultry in Hong Kong. Virol. 1998; 252:331-342.</p>
	<p>4) Iwatsuki-Horimoto K, Kanazawa R, Sugii S, et al. The index influenza A virus subtype H5N1 isolated from a human in 1997 differs in its receptor-binding properties from a virulent avian influenza virus. J. Gen. Virol. 2004; 85:1001-5.</p>

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