

Avian Influenza Hemagglutinin 4 Antibody

Catalog # ASC10457

Product Information

Application	E
Primary Accession	Q692M2
Other Accession	AAT76166 , 50365729
Reactivity	Virus
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	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.

Additional Information

Other Names	Avian Influenza Hemagglutinin 4 Antibody: , hemagglutinin
Target/Specificity	HA;
Reconstitution & Storage	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.
Precautions	Avian Influenza Hemagglutinin 4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

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.

References

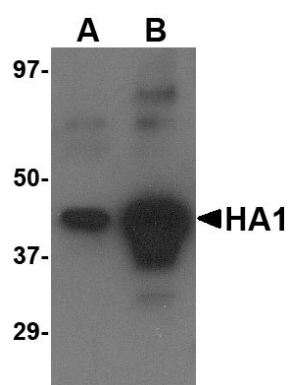
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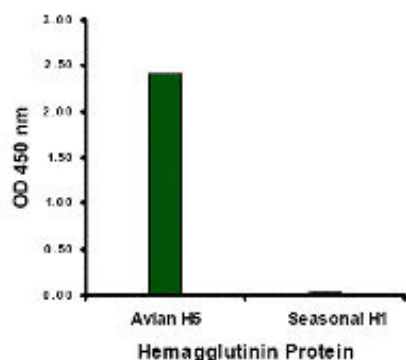
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Iwatsuki-Horimoto K, Kanazawa R, Sugii S, et al. The index influenza A virus subtype H5N1 isolated from a human in 1997 differs in its receptor-binding properties from a virulent avian influenza virus. *J. Gen. Virol.* 2004; 85:1001-5.

Images



Western blot analysis of (A) 5 ng and (B) 25 ng of recombinant HA1 with Avian Influenza Hemagglutinin 4 antibody at 1 $\mu\text{g/mL}$.



Hemagglutinin antibody at 1 $\mu\text{g/mL}$ specifically recognizes Avian H5N1 influenza virus but not seasonal influenza virus A H1N1 Hemagglutinin protein.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.