

# Avian Influenza Hemagglutinin 1 Antibody

Catalog # ASC10460

### **Specification**

## Avian Influenza Hemagglutinin 1 Antibody - Product Information

Application

Primary Accession Q692M2

Other Accession <u>AAT76166</u>, <u>50365729</u>

Reactivity

Host

Clonality

Isotype

Virus

Goat

Polyclonal

IgG

Isotype Application Notes Application Notes

Avian Influenza Hemagglutinin 1 antibody can be used for the detection of the Avian Influenza Hemagglutinin 1 protein from the H5N1 strain of avian influenza A in ELISA. It will detect 10 ng of free peptide at 1

μg/mL.

# Avian Influenza Hemagglutinin 1 Antibody - Additional Information

#### **Other Names**

Avian Influenza Hemagglutinin 1 Antibody: , hemagglutinin

### **Target/Specificity**

HA:

### **Reconstitution & Storage**

Avian Influenza Hemagglutinin 1 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 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Avian Influenza Hemagglutinin 1 Antibody - Protein Information

### Avian Influenza Hemagglutinin 1 Antibody - Protocols

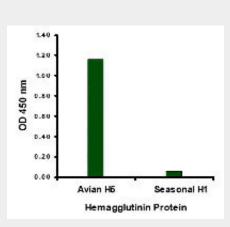
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry



- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# Avian Influenza Hemagglutinin 1 Antibody - Images



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

# Avian Influenza Hemagglutinin 1 Antibody - Background

Avian Influenza Hemagglutinin 1 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.

## Avian Influenza Hemagglutinin 1 Antibody - References

Thompson WW, Shay DK, Weintraub, et al. Mortality associated with influenza and respiratory syncytial virus in the United States. JAMA 2003; 289:179-186.

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Shortridge KF, Zhou NN, Guan Y, et al. Characterization of avian H5N1 influenza viruses from poultry in Hong Kong. Virol. 1998; 252:331-342.

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.