

Hemagglutinin Antibody [4E10C10]

Catalog # ASC11987

Product Information

Application	WB, E
Primary Accession	Q692M2
Other Accession	AAT76166 , 50365729
Reactivity	Virus
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1, IgG2b
Clone Names	4E10C10
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Hemagglutinin antibody can be used for detection of H5 HA1 by Western blot at 2.5 μ g/mL. Hemagglutinin antibody also specifically recognizes Avian H5N1 influenza virus at 2 μ g/mL.

Additional Information

Reconstitution & Storage	Hemagglutinin monoclonal antibody can be stored at -20°C, stable for one year.
Precautions	Hemagglutinin Antibody [4E10C10] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

Hemagglutinin Monoclonal 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, but 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. HA interacts with host cell surface proteins containing oligosaccharides with terminal sialyl residues. Its extracellular region has two domains (HA1 and HA2); HA1 is cleaved from the main hemagglutinin protein by the host immune system. During 1997, an H5N1 avian influenza virus was determined to be the cause of death in 6 of 18 infected patients in Hong Kong. This more recent virulent strain of H5N1 is now seen in Africa and Europe, as well as in Southeast Asia. There is some evidence of human to human spread of this virus, but it is thought that the efficiency of this type of transmission is low. 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

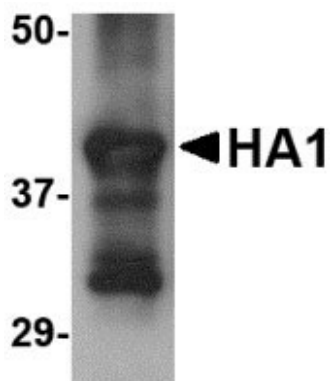
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Images



Western blot analysis of 25 ng of recombinant H5 HA1 with H5 HA1 antibody at 2.5 µg/mL.

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