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Hemagglutinin (4F1F2) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 253249

Unit: 0.1 mg

Description:

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. The 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 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. While efforts were made to use relatively conserved regions of the viral sequence as the antigen, the influenza virus genome has drifted somewhat from what was first reported. However, this antibody was able to recognize peptides derived from viruses from Indonesian human patients infected in 2007.

Isotype: mouse IgG1

Applications: E

Species Reactivity: Vs

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.02% sodium azide. Antibody was purified by Protein-A affinity chromatography.

Alternate Names: Avian Influenza A Hemagglutinin; H5N1 Hemagglutinin

Accession No.: AAT76166

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the center region of Hemagglutinin.

Application Notes: E: 1:500-1:1,000

Storage: Store at 4°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.