Product datasheet

Anti-Influenza A Virus Hemagglutinin antibody [AT1B7] ab139361

Overview

Product name Anti-Influenza A Virus Hemagglutinin antibody [AT1B7]
Description Mouse monoclonal [AT1B7] to Influenza A Virus Hemagglutinin
Host species Mouse
Specificity ab139361 specifically recognizes H3N2 Hemagglutinin HA1 recombinant protein, but did not interact with H1N1 Hemagglutinin HA1 and H5N1 Hemagglutinin HA1 recombinant protein in ELISA.
Tested applications Suitable for: WB, ELISA
Species reactivity Reacts with: Influenza A
Immunogen Recombinant full length Influenza A Virus H3N2 Hemagglutinin HA1 chain (amino acids 17-345) purified from Baculovirus (ACS71642.1).
Positive control Recombinant Influenza A Virus H3N2 Hemagglutinin protein
General notes ab139361 is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant Influenza A Virus Hemagglutinin protein.

Properties

Form Liquid
Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.
Storage buffer pH: 7.40
Preservative: 0.1% Sodium azide
Constituent: 99% PBS
Purity Ascites
Purification notes Purified from ascites.
Clonality Monoclonal
Clone number AT1B7
Isotype IgG1
Light chain type kappa
Relevance

Influenza A virus is a major public health threat. 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 avian sources, indicating its species jumping ability. Influenza A Virus Hemagglutinin antibodies recognize the influenza hemagglutinin epitope, which has been used extensively as a general epitope tag in expression vectors. The extreme specificity of this antibody allows for unambiguous identification and quantitative analysis of the tagged protein.

Cellular localization

Apical cell membrane; Single-pass type I membrane protein. Note=Targeted to the apical plasma membrane in epithelial polarized cells through a signal present in the transmembrane domain. Associated with glycosphingolipid- and cholesterol-enriched detergent-resistant lipid rafts.

Images

All lanes: Anti-Influenza A Virus Hemagglutinin antibody [AT1B7] (ab139361) at 1/1000 dilution

Lane 1: Influenza A Virus H1N1 Hemagglutinin Recombinant protein
Lane 2: Influenza A Virus H5N1 Hemagglutinin Recombinant protein
Lane 3: Influenza A Virus H3N2 Hemagglutinin Recombinant protein

Lysates/proteins at 0.1 µg per lane.
**All lanes**: Goat anti-mouse secondary antibody conjugated to HRP

Developed using the ECL technique.

**Predicted band size**: 63 kDa

ab139361 at 1µg/ml specifically recognizes H3N2 Hemagglutinin HA1 recombinant protein, but did not interact with H1N1 Hemagglutinin HA1 and H5N1 Hemagglutinin HA1 recombinant protein in ELISA.

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