**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.

This product was changed from ascites to tissue culture supernatant on 27 June 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

**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**
Tissue culture supernatant

**Purification notes**
Purified from TCS.

**Clonality**
Monoclonal

**Clone number**
AT1B7
Isotype: IgG1  
Light chain type: kappa

Applications

Our Abpromise guarantee covers the use of ab139361 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Target

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 as 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
Western blot - Anti-Influenza A Virus Hemagglutinin antibody [AT1B7] (ab139361)

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

Lane 1: H1N1 recombinant protein
Lane 2: H5N1 recombinant protein
Lane 3: H3N2 recombinant protein

Lysates/proteins at 0.1 µg per lane.

Secondary
All lanes: goat anti-mouse secondary antibody conjugated to HRP

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.

This image was generated using the ascites version of the product.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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