

Product datasheet

Anti-Influenza A Virus Hemagglutinin antibody [AT1B7] ab139361

1 References 3 Images

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). Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Recombinant Influenza A Virus H3N2 Hemagglutinin protein
General notes	<p>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.</p> <p>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.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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

The Abpromise guarantee 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.

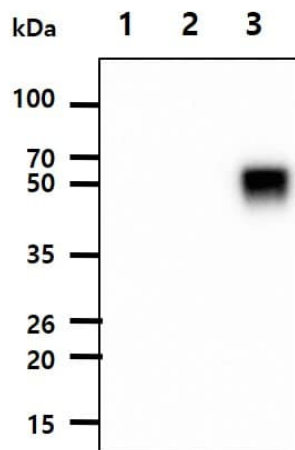
Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 63 kDa.
ELISA		Use at an assay dependent dilution.

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

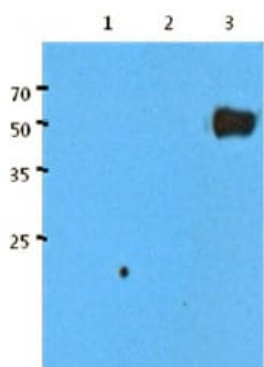
Lane 3 : H3N2 recombinant protein

Lysates/proteins at 0.1 µg per lane.

Secondary

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

Predicted band size: 63 kDa



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 : 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.

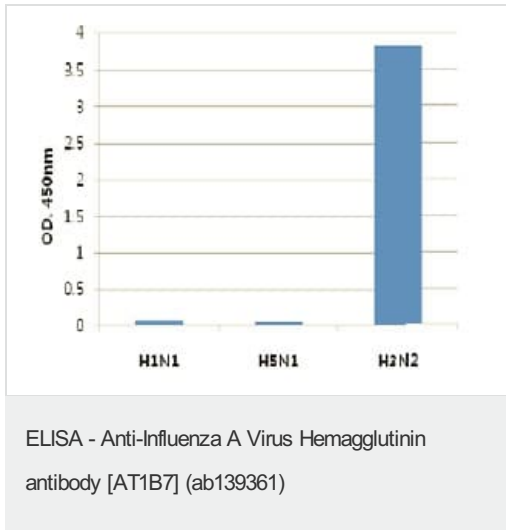
Secondary

All lanes : Goat anti-mouse secondary antibody conjugated to HRP

Developed using the ECL technique.

Predicted band size: 63 kDa

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



ab139361 at 1 µg/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.

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