abcam

Product datasheet

Anti-Avian Influenza A Neuraminidase antibody - N-terminal ab191862

3 Images

Overview

Product name	Anti-Avian Influenza A Neuraminidase antibody - N-terminal
Description	Rabbit polyclonal to Avian Influenza A Neuraminidase - N-terminal
Host species	Rabbit
Specificity	ab191862 can be used for detection of Avian Influenza A H7N9 Neuraminidase by ELISA and WB at 1 µg/ml.
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Influenza A
Immunogen	Synthetic peptide corresponding to Avian Influenza A Neuraminidase (N terminal). (11 amino acid peptide from near the amino terminus of the H7N9 [Influenza A virus (A/Shanghai/02/2013(H7N9))] Neuraminidase protein). Database link: **AGL44440**
Positive control	WB: H7N9 Neuraminidase recombinant protein. ELISA: H7N9 [Influenza A virus (A/Shanghai/02/2013(H7N9))] Neuraminidase peptide and Neuraminidase recombinant protein.
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: 99% PBS

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab191862 in the following tested applications.

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

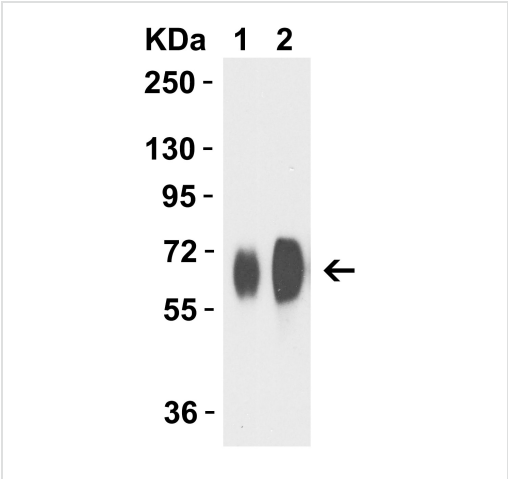
Application	Abreviews	Notes
ELISA		Use a concentration of 1 µg/ml.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 51 kDa.

Target

Relevance Catalyzes the removal of terminal sialic acid residues from viral and cellular glycoconjugates. Cleaves off the terminal sialic acids on the glycosylated HA during virus budding to facilitate virus release. Additionally helps virus spread through the circulation by further removing sialic acids from the cell surface. These cleavages prevent self-aggregation and ensure the efficient spread of the progeny virus from cell to cell. Otherwise, infection would be limited to one round of replication. Described as a receptor-destroying enzyme because it cleaves a terminal sialic acid from the cellular receptors. May facilitate viral invasion of the upper airways by cleaving the sialic acid moities on the mucin of the airway epithelial cells. Likely to plays a role in the budding process through its association with lipid rafts during intracellular transport. May additionally display a raft-association independent effect on budding. Plays a role in the determination of host range restriction on replication and virulence. Sialidase activity in late endosome/lysosome traffic seems to enhance virus replication.

Cellular localization Cell Membrane; Virion membrane. Apical cell membrane; Single-pass type II membrane protein (By similarity).

Images



Western blot - Anti-Avian Influenza A Neuraminidase antibody - N-terminal (ab191862)

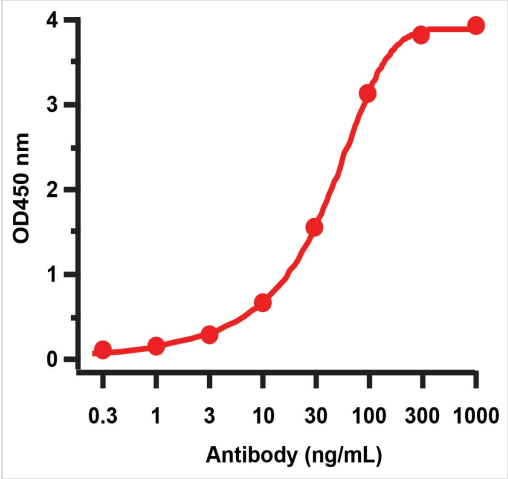
All lanes : Anti-Avian Influenza A Neuraminidase antibody - N-terminal (ab191862) at 1 µg/ml

Lane 1 : 50 ng of H7N9 Neuraminidase recombinant protein
Lane 2 : 100 ng of H7N9 Neuraminidase recombinant protein

Secondary
All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

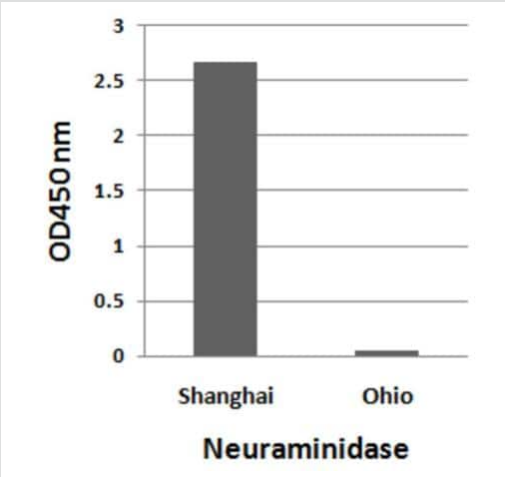
Predicted band size: 51 kDa

1h incubation at RT in 5% NFDM/TBST.



ELISA - Anti-Avian Influenza A Neuraminidase antibody - N-terminal (ab191862)

Validation with H7N9 NA Protein Coating Antigen: H7N9 Neuraminidase recombinant protein, 2 µg/mL, incubated at 4˚C overnight. Detection Antibodies: ab191862, dilution: 1-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-rabbit HRP at 1/10000, incubated at RT for 1 hr.



ELISA - Anti-Avian Influenza A Neuraminidase antibody - N-terminal (ab191862)

ab191862 at 1 µg/ml detects 10 ng of H7N9 [Influenza A virus (A/Shanghai/02/2013(H7N9))] Neuraminidase peptide, and not 10 ng of H7N9 [Influenza A virus (A/blue-winged teal/Ohio/566/2006(H7N9))] Neuraminidase peptide in ELISA.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors