abcam

Product datasheet

Anti-Avian Influenza A Neuraminidase antibody ab21305

3 References 2 Images

Overview

Product name	Anti-Avian Influenza A Neuraminidase antibody
Description	Rabbit polyclonal to Avian Influenza A Neuraminidase
Host species	Rabbit
Specificity	ab21305 can be used for the detection of the Neuraminidase protein from the H5N1 strain of avian influenza A in ELISA and WB. It will detect 10 ng of free peptide at 1 µg/mL.
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Influenza A
Immunogen	Synthetic peptide corresponding to 16 amino acids in the middle of the Neuraminidase protein. Efforts were made to use relatively conserved regions as the antigen.
Positive control	WB: Avian Influenza Neuraminidase recombinant protein. ELISA: Avian Influenza 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.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab21305 in the following tested applications.

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

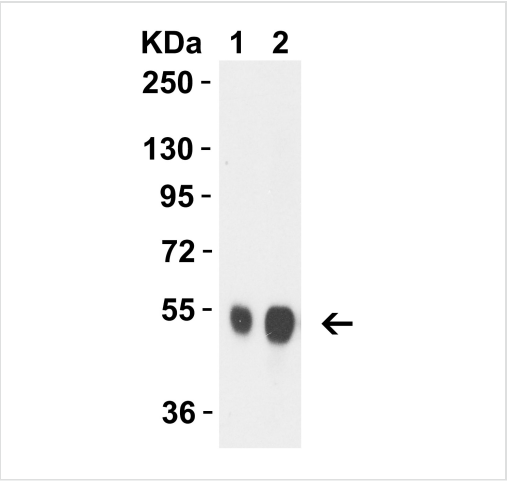
Application	Abreviews	Notes
ELISA		Use a concentration of 1 µg/ml. Detects 10 ng of free peptide.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 51 kDa.

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 (ab21305)

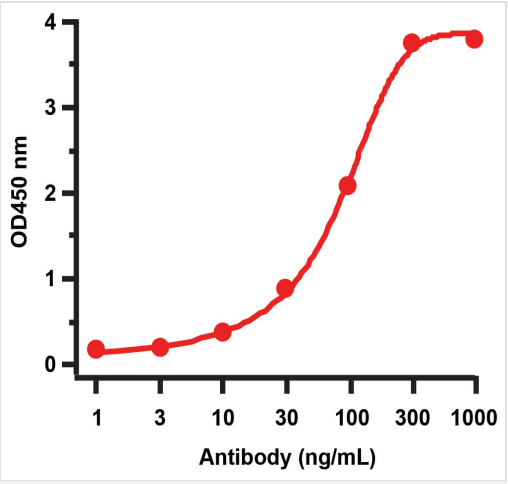
All lanes : Anti-Avian Influenza A Neuraminidase antibody (ab21305) at 1 µg/ml

Lane 1 : 50 ng of Avian Influenza Neuraminidase recombinant protein
Lane 2 : 100 ng of Avian Influenza 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 (ab21305)

Validation with Avian Influenza NA Protein Coating Antigen: Avian Influenza Neuraminidase recombinant protein, 2 µg/mL, incubated at 4˚C overnight. Detection Antibodies: ab21305, dilution: 1-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-rabbit HRP at 1/10000 dilution, incubated at RT for 1 hr.

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