Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-101-Z08

Avian Influenza Hemagglutinin 2 Antibody

Overview

Description:	Anti-Avian Influenza Hemagglutinin 2 (GOAT) Antibody - 600-101-Z08
Item No.:	600-101-Z08
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Virus
Host Species:	Goat

Product Details

Background:	Influenza A virus is a major public health threat, killing more than 30, 000 people per year in the USA. 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.
Synonyms:	Avian Influenza Hemagglutinin 2 Antibody,
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HA
Reactivity:	Virus

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Avian Influenza Hemagglutinin 2 antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to 12 amino acids near the N-terminus of the Hemagglutinin protein. Efforts were made to use relatively conserved regions of the viral sequence as the antigen.
Purity/Specificity:	Anti-Avian Influenza Hemagglutinin 2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Avian Influenza Hemagglutinin 2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q692M2 • NCBI - AAT76166

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Avian Influenza Hemagglutinin 2 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 64 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1 µg/mL

Formulation

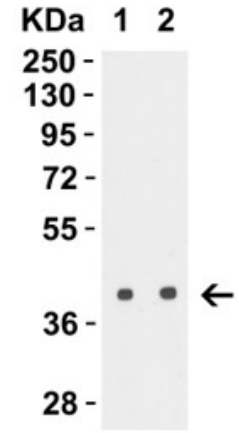
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

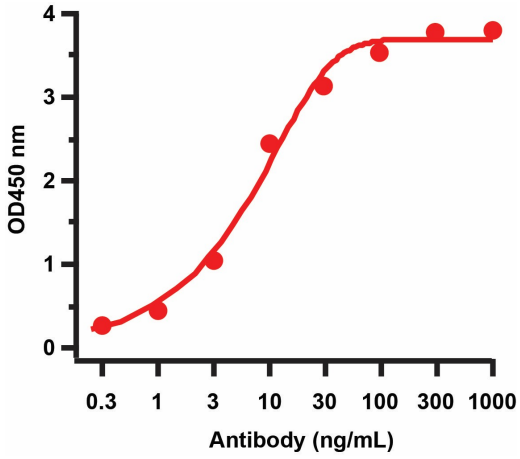
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

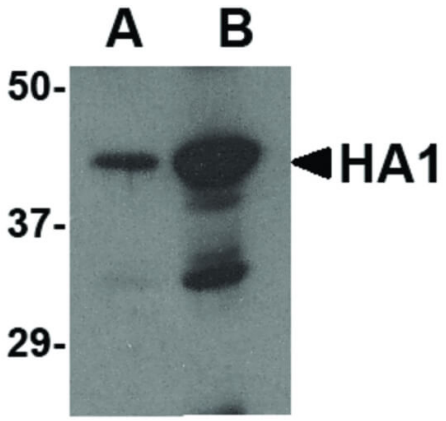
Images



Western Blot
Western Blot Validation with H5N1 HA Protein. Loading: 30 ng H5N1 Hemagglutinin recombinant protein. Lane 1: 0.5 µg/mL; Lane 2: 1 µg/mL. Antibodies: Avian Influenza H5N1 HA antibody, 1h incubation at RT in 5% NFDM/TBST. Secondary: Rabbit anti-goat IgG HRP conjugate at 1:10,000 dilution.



ELISA
ELISA Validation with H5N1 HA Protein. Coating Antigen: H5N1 Hemagglutinin recombinant protein 2 µg/mL, incubated at 4 °C overnight. Detection Antibody: Avian Influenza H5N1 HA antibody, dilution: 0.3-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Rabbit anti-goat HRP at 1:10,000, incubated at RT for 1 hr.



Western Blot

Western Blot of Avian Influenza Hemagglutinin 2 antibody. Lane A: 5 ng of recombinant HA1 with Avian Influenza Hemagglutinin 2 antibody. Lane B: 25 ng of recombinant HA1 with Avian Influenza Hemagglutinin 2 antibody. Load: 35 µg per lane. Primary antibody: Avian Influenza Hemagglutinin 2 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase goat secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 64 kDa, 45 kDa for Avian Influenza Hemagglutinin 2. Other band(s): Avian Influenza Hemagglutinin 2 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.