

## Product datasheet

# Anti-Avian Influenza A Hemagglutinin antibody ab62587

[3 Images](#)

### Overview

<b>Product name</b>	Anti-Avian Influenza A Hemagglutinin antibody
<b>Description</b>	Goat polyclonal to Avian Influenza A Hemagglutinin
<b>Host species</b>	Goat
<b>Specificity</b>	ab62587 can be used for the detection of the Hemagglutinin 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.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> H5N1 subtype
<b>Immunogen</b>	Synthetic peptide corresponding to 12 amino acids near the amino terminus of the Avian influenza A Hemagglutinin 1 protein. Efforts were made to use relatively conserved regions of the viral sequence as the antigen.
<b>Positive control</b>	WB: H5N1 Hemagglutinin recombinant protein. ELISA: H5N1 Hemagglutinin recombinant protein.
<b>General notes</b>	<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&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab62587 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		
WB		

### Application notes

ELISA: Use at an assay dependent dilution. The antibody will detect 10 ng of free peptide at 1 µg/ml.

WB: Use at a concentration of 1 µg/ml. Detects a band of approximately 45 kDa (predicted molecular weight: 64 kDa).

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## Target

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### Relevance

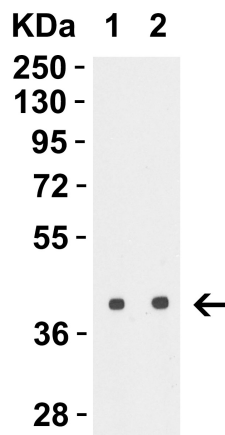
Influenza A virus is a major public health threat, killing more than 30,000 people per year in the USA. Novel influenza virus strains caused by genetic drift and viral recombination emerge periodically to which humans have little or no immunity, resulting in devastating pandemics. Influenza A can exist 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. 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.

### Cellular localization

Cell Membrane

## Images

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Western blot - Anti-Avian Influenza A Hemagglutinin antibody (ab62587)

**Lane 1 :** Anti-Avian Influenza A Hemagglutinin antibody (ab62587) at 0.5  $\mu\text{g/ml}$

**Lane 2 :** Anti-Avian Influenza A Hemagglutinin antibody (ab62587) at 1  $\mu\text{g/ml}$

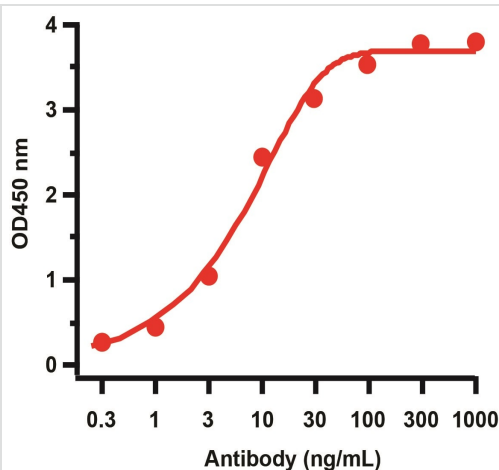
**All lanes :** 30 ng of H5N1 Hemagglutinin recombinant protein

**Secondary**

**All lanes :** Rabbit anti-goat IgG HRP conjugate at 1/10000 dilution

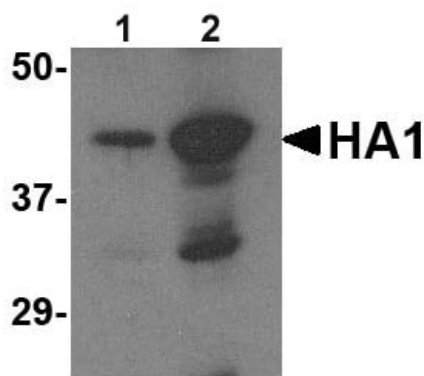
**Predicted band size:** 64 kDa

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



ELISA - Anti-Avian Influenza A Hemagglutinin antibody (ab62587)

Validation with H5N1 HA Protein Coating Antigen: H5N1 Hemagglutinin recombinant protein, 2  $\mu\text{g/mL}$ , incubated at 4  $^{\circ}\text{C}$  overnight. Detection Antibodies: ab62587, dilution: 0.3-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Rabbit anti-goat HRP at 1/10000, incubated at RT for 1 hr.



Western blot - Anti-Avian Influenza A Hemagglutinin antibody (ab62587)

**All lanes :** Anti-Avian Influenza A Hemagglutinin antibody (ab62587) at 1  $\mu\text{g/ml}$

**Lane 1 :** 5 ng of Recombinant HA1

**Lane 2 :** 25 ng of Recombinant HA1

**Predicted band size:** 64 kDa

**Observed band size:** 45 kDa

**Additional bands at:** 33 kDa, 35 kDa, 40 kDa. We are unsure as to the identity of these extra bands.

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

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