

## DATASHEET

# Anti-H3N8 Avian Influenza HA Protein Mouse Monoclonal Antibody (H3\_3B8)

CAT. NO. AXA0002

### KEY FEATURES

Target	H3N8 Avian Influenza HA Protein	Source / Host	Mouse
Reactivity	H3N8 Avian Influenza HA Protein	Clonality	Monoclonal
Applications	WB,IFA,Hemagglutination Inhibition	Storage	-20.0°C

### BACKGROUND

HA protein belongs to class I viral fusion proteins. It can bind to sialic-acid-containing receptors on the surface of host cells, enabling the virus particles to attach to the cells. Later, it mediates the fusion of the viral membrane with the endosomal membrane of the host cell through conformational changes, facilitating the entry of the virus into the cell cytoplasm. The HA protein of H3N8 avian influenza virus is a trimer, and each monomer is composed of two subunits, HA1 and HA2. The receptor-binding site of the HA protein is located in the HA1 subunit, which is responsible for binding to host cell receptors. The HA2 subunit is mainly responsible for membrane fusion. Studies have shown that the HA protein of the H3N8 avian influenza virus has the characteristics of binding to dual receptors, but it has a greater tendency to bind to avian receptors. However, mutations at specific positions, such as the G228S mutation, can significantly enhance its binding ability to human receptors. In addition, the antigenic sites of the H3N8 HA protein are unique, which may affect the effectiveness of existing influenza vaccines.

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

Application	Dilution Ratio
WB	1:200-1:1000
IF/ICC	1:200-1:500
Hemagglutination Inhibition	1:1000-1:5120

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### OVERVIEW

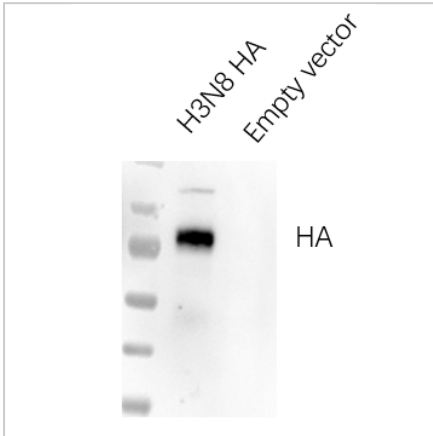
Description	Mouse Monoclonal antibody to H3N8 Avian Influenza HA Protein
Antibody Type	Primary antibody
Immunogen	H3N8 Avian Influenza Virus
Form/Buffer	PBS, 20% Glycerol; preservative: 0.05% Sodium Azide
Alternative Names	H3N8 HA, H3 hemagglutinin, Avian influenza H3 HA, AIV H3N8 hemagglutinin

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

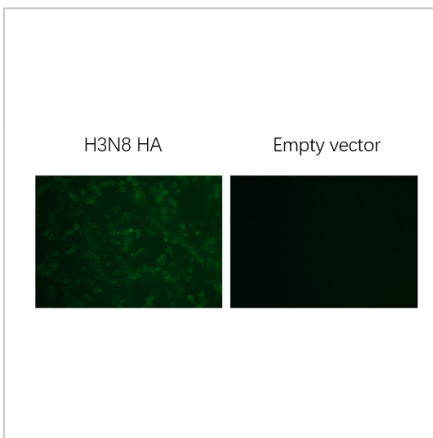
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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(H3\_3B8)**

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**DATA**

WB results indicate that this antibody can effectively recognize the H3N8 HA protein expressed in 293T cells.



IFA results indicate that this antibody can effectively recognize the H3N8 HA protein expressed in 293T cells.

**STORAGE**

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: [www.arexbio.com](http://www.arexbio.com)