abcam

ab281950

FITC Anti-H7N9 Hemagglutinin antibody [002]

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 0.5% BSA
Form	Liquid
Clonality	Monoclonal
Clone number	002
Purification technique	Affinity purification Protein A
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Transfected cell line - H7N9 subtype
Dilution info	0.1 µg/mL
Notes	10 µl per test.

Predicted

Species	H7N9 subtype
Dilution info	-
Notes	-

Target data

See full target information H7N9 Hemagglutinin

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Notes

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	H7N9 Hemagglutinin also known simply as HA is a glycoprotein important for the entry of the influenza A virus into host cells. It facilitates viral attachment to host cell receptors by binding to sialic acid residues which triggers endocytosis and eventual viral fusion with the host membrane. H7N9 Hemagglutinin has a molecular mass of approximately 75 kDa. It is expressed on the surface of the viral

	envelope and undergoes a conformational change which is pH-dependent required for fusion with host cell membranes.
Biological function summary	Hemagglutinin plays an essential role in viral infectivity and propagation. As part of the influenza virus surface glycoproteins complex along with neuraminidase it not only aids in viral entry but also influences the immune recognition by the host organism. Hemagglutinin's structure is an important determinant of host specificity and antigenic variation which affects how the immune system identifies and responds to viral infections making it important in immune evasion.
Pathways	H7N9 Hemagglutinin participates in viral entry processes and immune response pathways including antigen processing and presentation. It is closely associated with sialic acid metabolism as it determines the binding specificity and efficiency to different host cells. Its actions are often linked to other viral proteins like neuraminidase which assists in the release of new viral particles albeit with a contrasting function of cleaving sialic acid residues from glycoproteins.
Associated diseases and disorders	H7N9 Hemagglutinin is associated mainly with influenza A specifically highly pathogenic avian influenza infections and potential zoonotic transmissions. These infections can lead to severe respiratory diseases often linked with high morbidity and mortality in humans. It works in conjunction with other influenza proteins such as neuraminidase contributing to the virus's ability to spread and cause disease in various hosts. Understanding hemagglutinin's role can aid in developing vaccines and therapeutic targets to control and prevent influenza outbreaks.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

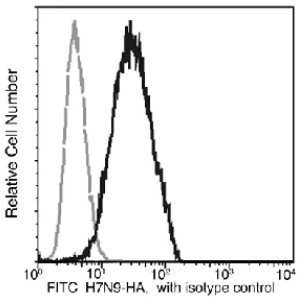
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:

1 product image



Flow Cytometry - FITC Anti-H7N9 Hemagglutinin antibody [002] (ab281950)

H7N9 Hemagglutinin Flow Cytometry staining using rabbit Anti-H7N9 Hemagglutinin antibody

Flow cytometric analysis of HEK-293 (Human epithelial cell line from embryonic kidney) cells transfected with plasmid DNA of H7N9 (A/Anhui/1/2013) Hemagglutinin using ab281950 at 0.1 mg/ml (black) compared to an isotype control (gray).
Cells were collected at 72 hours post-transfection, and the cell surface expression of HA were measured by flow cytometry.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.