



### Source

Monoclonal Anti-Influenza A [A/Darwin/9/2021 (H3N2)] HA Antibody, Human IgG1 (1D6) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

### Clone

1D6

### Isotype

Human IgG1 | Human Kappa

### Conjugate

Unconjugated

### Antibody Type

Recombinant Monoclonal

### Reactivity

Virus

### Immunogen

Recombinant Influenza A [A/Darwin/9/2021 (H3N2)] HA Protein is expressed from human 293 cells.

### Specificity

Specifically recognizes Influenza A (H3N2) Viruses Hemagglutinin (HA).

### Application

Application	Recommended Usage
ELISA	0.1-10 ng/mL

### Cross Verification

This product can cross in Elisa with

Influenza A [A/guinea fowl/Hong Kong/WF10/99(H9N2)] Hemagglutinin (HA) Protein, His Tag (Cat. No. HA2-V52H7).

This product No cross-reactivity in ELISA with

Influenza A [A/guinea fowl/Hong Kong/WF10/99(H9N2)] HA1 Protein, His Tag (Cat. No. HA1-V52H5).

Influenza A [A/Hong Kong/483/97 (H5N1)] HA, His Tag (Cat. No. HA1-V5229).

Influenza A [A/Wisconsin/588/2019 (H1N1)] HA, His Tag (Cat. No. HA1-V52H3)/Influenza A [A/Bangkok/1/1979 (H3N2)] HA, His Tag (Cat. No. HA2-V52H3).

Influenza A [A/Darwin/6/2021 (H3N2)] HA Protein, His Tag (Cat. No. HA2-V52H5).

Influenza A [Sydney/5/2021 (H1N1)] HA Protein, His Tag (Cat. No. HA1-V52H4).

Influenza B [Austria/1359417/2021 (B/Victoria lineage)] Hemagglutinin (HA) Protein, His Tag (Cat. No. HAE-V52H3).

Influenza B [Phuket/3073/2013 (B/Yamagata lineage)] HA Protein, His Tag (Cat. No. HAE-V52H4).

Influenza A [A/Victoria/2570/2019] Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H6).

### Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Purification

Protein A purified/ Protein G purified

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

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and more!



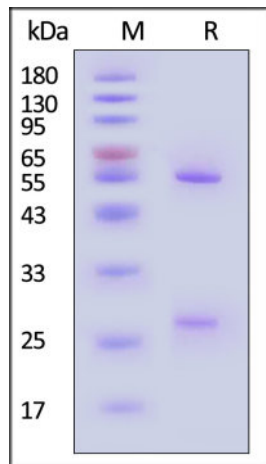
# Monoclonal Anti-Influenza A [A/Darwin/9/2021 (H3N2)] HA Antibody, Human IgG1 (1D6) (MALS verified)

Catalog # HA2-M693



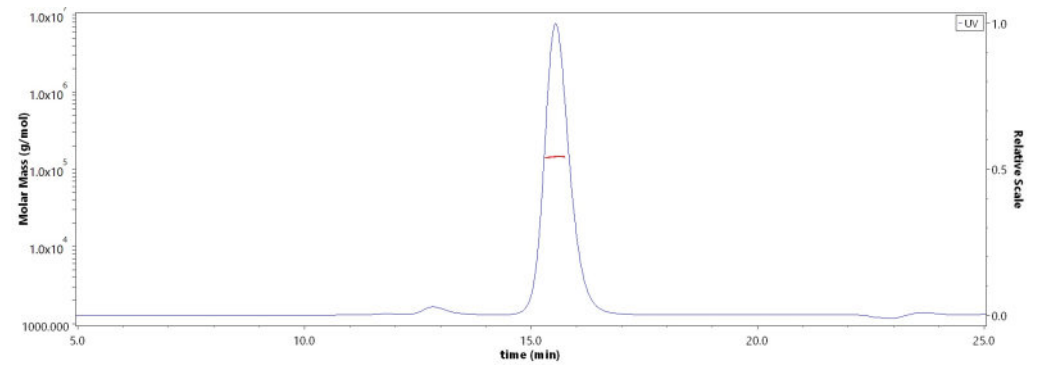
- Influenza A (A/Shanghai/02/2013(H7N9)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA9-V52H3).
- Influenza A [Victoria/4897/2022] Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H8).
- Influenza A (turkey/Germany-MV/R2472/2014(H5N8)) HA Protein, His Tag (Cat. No. HA8-V52H3).
- Influenza A (Guangdong/18SF020(H5N6)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA6-V52H3).
- Influenza A (Vietnam/1194/2004(H5N1)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H9).
- Influenza A [Wisconsin/67/2022] Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H7).

## SDS-PAGE



Monoclonal Anti-Influenza A [A/Darwin/9/2021 (H3N2)] HA Antibody, Human IgG1 (1D6) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

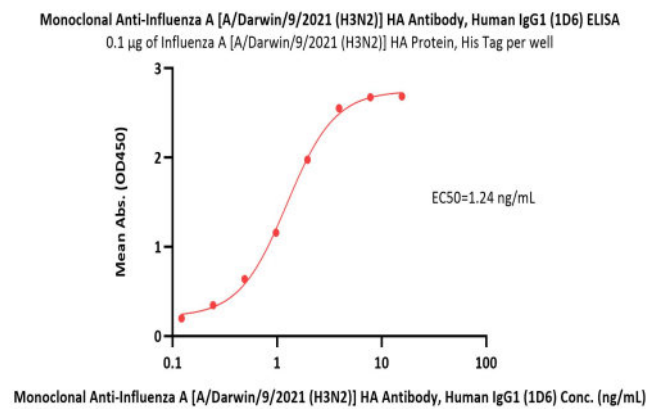
## SEC-MALS



The purity of Monoclonal Anti-Influenza A [A/Darwin/9/2021 (H3N2)] HA Antibody, Human IgG1 (1D6) (Cat. No. HA2-M693) is more than 90% and the molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.

[Report](#)

## Bioactivity-ELISA



Immobilized Influenza A [A/Darwin/9/2021 (H3N2)] HA Protein, His Tag (Cat. No. HA2-V52H6) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Influenza A [A/Darwin/9/2021 (H3N2)] HA Antibody, Human IgG1 (1D6) (Cat. No. HA2-M693) with a linear range of 0.1-2 ng/mL (QC tested).

## Background

Neuraminidase (NA) and hemagglutinin (HA) are major membrane glycoproteins found on the surface of influenza virus. Hemagglutinin binds to the sialic acid-containing receptors on the surface of host cells during initial infection and at the end of an infectious cycle. Neuraminidase, on the other hand, cleaves the HA-sialic acid bondage from the newly formed virions and the host cell receptors during budding. Neuraminidase thus is described as a receptor-destroying enzyme which facilitates virus release and efficient spread of the progeny virus from cell to cell.

## Clinical and Translational Updates

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Catalog # HA2-M693



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