# Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) (MALS verified)





#### Source

Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

7D8

**Species** 

Mouse

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

**Antibody Type** 

Recombinant Monoclonal

Reactivity

Virus

## Immunogen

Recombinant Influenza A Virus HA (H3N2) Protein is expressed from human 293 cells.

# **Specificity**

Specifically recognizes Influenza A Virus (A/Thailand/8/2022) & (A/Massachusetts/18/2022) HA (H3N2) Protein.

## **Application**

Application	Recommended Usage
ELISA	0.1-125 ng/mL

## **Cross Verification**

This product No cross-reactivity in ELISA with

Influenza A [Victoria/4897/2022] Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H8).

Influenza A [Wisconsin/67/2022] Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H7).

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

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).

### **Purity**

>95% 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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Influenza A (Vietnam/1194/2004(H5N1)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H9).

Influenza A (Guangdong/18SF020(H5N6)) Hemagglutinin (HA) Protein, His Tag (Cat. No.HA6-V52H3).

Influenza A (turkey/Germany-MV/R2472/2014(H5N8)) HA Protein, His Tag (Cat. No. HA8-V52H3).

Influenza A (A/Shanghai/02/2013(H7N9)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA9-V52H3).

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

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/Bangkok/1/1979 (H3N2)] HA, His Tag (Cat. No. HA2-V52H3).

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

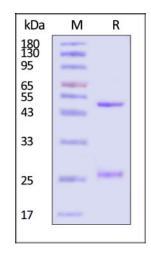
Influenza B (B/Singapore/INFTT-16-0610/2016) Hemagglutinin (HA) Protein, His Tag (Cat. No. HAE-V52H5).

Influenza B (B/Singapore/WUH4618/2021) Hemagglutinin (HA) Protein, His Tag (Cat. No. HAE-V52H6).

Influenza A (A/Georgia/12/2022) Hemagglutinin (HA) Protein, His Tag (Cat. No. HAE-V52H7).

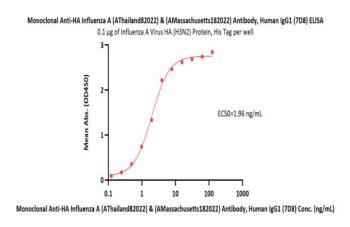
Influenza A [A/Hong Kong/483/97 (H5N1)] HA, His Tag (Cat. No. HA1-V5229).

## **SDS-PAGE**



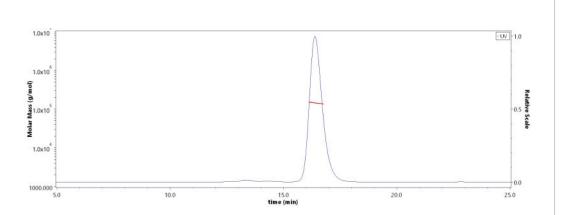
Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With <u>Star Ribbon Pre-stained Protein Marker</u>).

## **Bioactivity-ELISA**



Immobilized Influenza A Virus HA (H3N2) Protein, His Tag (Cat. No. H32-V52H3) at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) (Cat. No. HA1-MY2170) with a linear range of 0.1-4 ng/mL (QC tested).

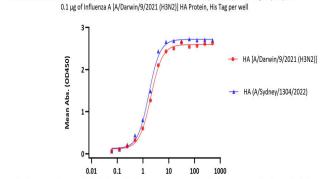
### **SEC-MALS**



The purity of Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) (Cat. No. HA1-MY2170) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS.

Report

Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) ELISA



Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) Conc. (ng/mL)

Immobilized Influenza A [A/Darwin/9/2021 (H3N2)] HA Protein, His Tag (Cat. No. HA2-V52H6), Influenza A (A/Sydney/1304/2022) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA2-V52H9) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) (Cat. No. HA1-

MY2170) with a linear range of 0.1-4 ng/mL (Routinely tested).



# Monoclonal Anti-HA Influenza A (AThailand82022) & (AMassachusetts182022) Antibody, Human IgG1 (7D8) (MALS verified)

Catalog # HA1-MY2170



## **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. Hemagglutinin also plays a major role in the determination of host range restriction and virulence. As a class I viral fusion protein, hemagglutinin is responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane.

**Clinical and Translational Updates** 

