



**Source**

Monoclonal Anti-HA (strain A/Bangkok/1/1979 (H3N2)) Antibody, Mouse IgG1 (2D10) is a Mouse monoclonal antibody produced from a hybridoma created by fusing SP2/0 myeloma and Mouse B-lymphocytes.

**Clone**

2D10

**Species**

Mouse

**Isotype**

Mouse IgG1 | Mouse Kappa

**Conjugate**

Unconjugated

**Antibody Type**

Hybridoma Monoclonal

**Reactivity**

Virus

**Immunogen**

Recombinant Influenza A [A/Bangkok/1/1979 (H3N2)] HA derived from human 293 cells.

**Specificity**

This product is a specific antibody specifically reacts with Influenza A [A/Bangkok/1/1979 (H3N2)] HA.

**Application**

Application	Recommended Usage
ELISA	0.4-100 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/Wisconsin/588/2019 (H1N1)] HA, His Tag (Cat. No. HA1-V52H3).  
 Influenza A [A/Victoria/2570/2019] Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H6).  
 Influenza A [Sydney/5/2021 (H1N1)] HA Protein, His Tag (Cat. No. HA1-V52H14).  
 Influenza A [A/Darwin/6/2021 (H3N2)] HA Protein, His Tag (Cat. No. HA2-V52H5).  
 Influenza A [A/Darwin/9/2021 (H3N2)] HA Protein, His Tag (Cat. No. HA2-V52H6).

**Purity**

>95% as determined by SDS-PAGE.

**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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# Monoclonal Anti-HA (strain A/Bangkok/1/1979 (H3N2)) Antibody, Mouse IgG1 (2D10)

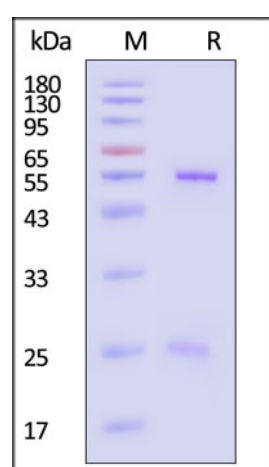
Catalog # HA2-Y181



BIOSYSTEMS  
**Acro**  
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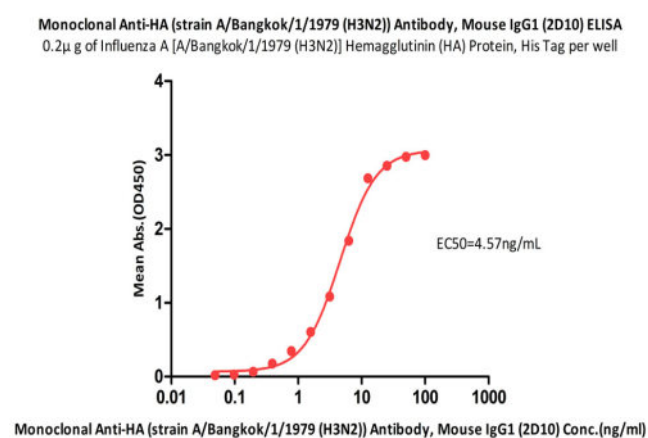
- Influenza A [A/Hong Kong/483/97 (H5N1)] HA, His Tag (Cat. No. HA1-V5229).
- Influenza A (Guangdong/18SF020(H5N6)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA6-V52H3).
- Influenza A (turkey/Germany-MV/R2472/2014(H5N8)) HA Protein, His Tag (Cat. No. HA8-V52H3).
- Influenza A (A/Shanghai/02/2013(H7N9)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA9-V52H3).
- Influenza 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 (Vietnam/1194/2004(H5N1)) Hemagglutinin (HA) Protein, His Tag (Cat. No. HA1-V52H9).
- Influenza A Virus (A/District of Columbia/27/2023) HA (H3N2) Protein, His Tag (Cat. No. H32-V52H5).
- Influenza A Virus (A/Croatia/10136RV/2023) HA (H3N2) Protein, His Tag (Cat. No. H32-V52H4).

## SDS-PAGE



Monoclonal Anti-HA (strain A/Bangkok/1/1979 (H3N2)) Antibody, Mouse IgG1 (2D10) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA



Immobilized Influenza A [A/Bangkok/1/1979 (H3N2)] Hemagglutinin (HA) Protein, His Tag (MALS verified) (Cat. No. HA2-V52H3) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Monoclonal Anti-HA (strain A/Bangkok/1/1979 (H3N2)) Antibody, Mouse IgG1 (2D10) (Cat. No. HA2-Y181) with a linear range of 0.195-6.25 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. Hemagglutinin also plays a major role in the

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10/31/2024

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Catalog # HA2-Y181



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

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