

Source

Monoclonal Anti-HA (Influenza A/Darwin/9/2021 (H3N2)) Antibody, Mouse IgG1 (1D6) is a Mouse monoclonal antibody produced from a hybridoma created by fusing SP2/0 myeloma and Mouse B-lymphocytes.

Clone

1D6

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Antibody Type

Hybridoma Monoclonal

Reactivity

Virus

Immunogen

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

Specificity

Specifically recognizes HA (Influenza A/Darwin/9/2021 (H3N2)).

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/Hong Kong/483/97 (H5N1)] HA, His Tag (Cat. No. HA1-V5229).
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 B [Phuket/3073/2013 (B/Yamagata lineage)] HA Protein, His Tag (Cat. No. HAE-V52H4).

Purity

>95% as determined by SDS-PAGE.
>95% as determined by SEC-MALS.

Purification

Protein A purified / Protein G purified

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.0 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.



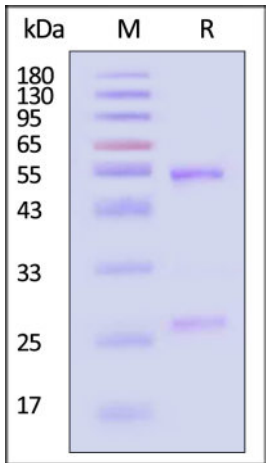
Monoclonal Anti-HA (Influenza A/Darwin/9/2021 (H3N2)) Antibody, Mouse IgG1 (1D6) (MALS verified)

Catalog # HA2-Y196



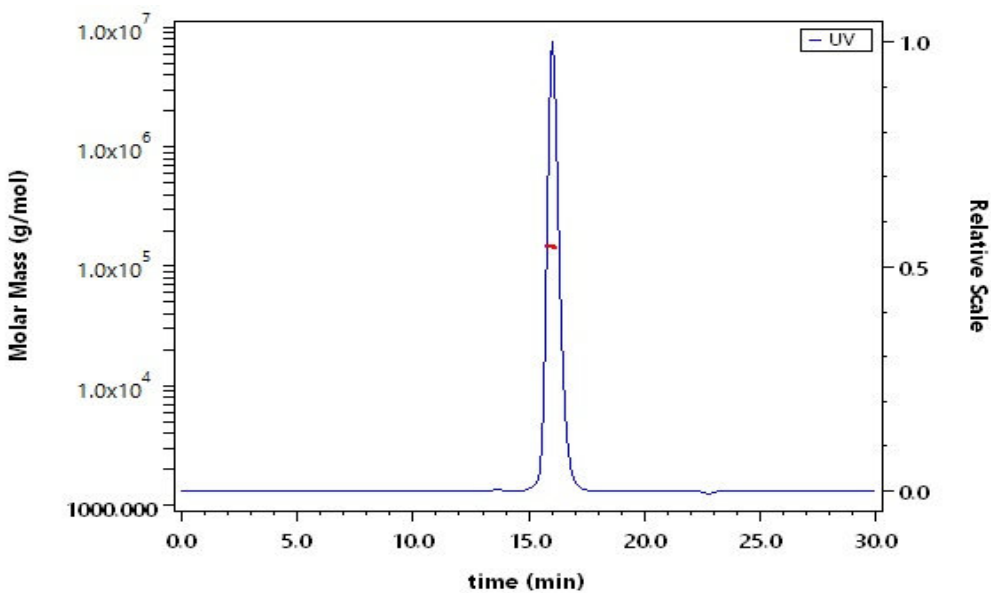
This product No cross-reactivity in ELISA with
Influenza A Virus (A/District of Columbia/27/2023) HA (H3N2) Protein, His Tag (Cat. No. H32-V52H5).
Influenza A Virus (A/Croatia/10136RV/2023) HA (H3N2) Protein, His Tag (Cat. No. H32-V52H4).

SDS-PAGE



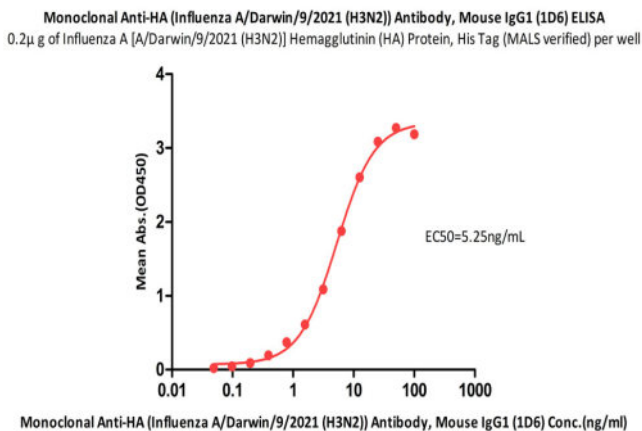
Monoclonal Anti-HA (Influenza A/Darwin/9/2021 (H3N2)) Antibody, Mouse IgG1 (1D6) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

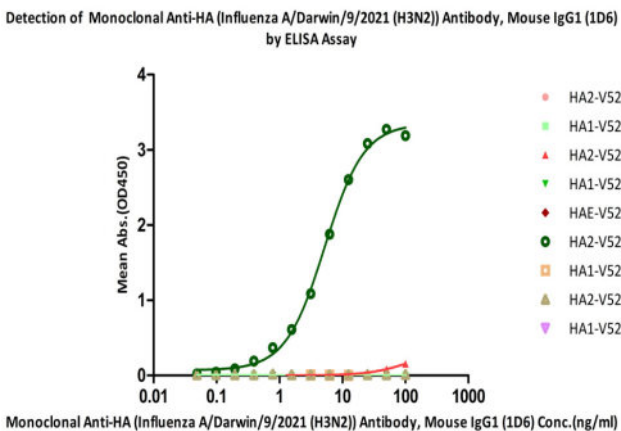


The purity of Monoclonal Anti-HA (Influenza A/Darwin/9/2021 (H3N2)) Antibody, Mouse IgG1 (1D6) (Cat. No. HA2-Y196) is more than 95% and the molecular weight of this protein is around 130-160 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA



Immobilized Influenza A [A/Darwin/9/2021 (H3N2)] Hemagglutinin (HA) Protein, His Tag (MALS verified) (Cat. No. HA2-V52H6) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-HA (Influenza A/Darwin/9/2021 (H3N2)) Antibody, Mouse IgG1 (1D6)(Cat. No. HA2-Y196) with a linear range of 0.195-6.25 ng/mL (QC tested).



Immobilized Influenza A [A/Darwin/9/2021 (H3N2)] Hemagglutinin (HA) Protein, His Tag (MALS verified) (Cat. No. HA2-V52H6) can bind Monoclonal Anti-HA (Influenza A/Darwin/9/2021 (H3N2)) Antibody, Mouse IgG1 (1D6)(Cat. No. HA2-Y196). The antibody does not bind Influenza A [A/Bangkok/1/1979 (H3N2)] Hemagglutinin (HA) Protein, His Tag (MALS verified)(Cat. No. HA2-V52H3), Influenza A [A/Wisconsin/588/2019 (H1N1)] Hemagglutinin (HA) Protein, His Tag (MALS verified)(Cat. No. HA1-V52H3), Influenza A [A/Darwin/6/2021 (H3N2)] Hemagglutinin (HA) Protein, His Tag (MALS verified)(Cat. No. HA2-V52H5), Influenza A [Sydney/5/2021 (H1N1)] Hemagglutinin (HA) Protein, His Tag (MALS verified)(Cat. No. HA1-V52H4), Influenza B [Austria/1359417/2021 (B/Victoria lineage)] Hemagglutinin (HA) Protein, His Tag(Cat. No. HAE-V52H3), Influenza A [A/guinea fowl/Hong Kong/WF10/99(H9N2)] Hemagglutinin 1 (HA1) Protein, His Tag (MALS verified)(Cat. No. HA1-V52H5), Influenza A [A/guinea





fowl/Hong Kong/WF10/99(H9N2)] Hemagglutinin (HA) Protein, His Tag (MALS verified)(Cat. No. HA2-V52H7) and Influenza A [A/Victoria/2570/2019] Hemagglutinin (HA) Protein, His Tag (MALS verified) (Cat. No. HA1-V52H6). (Routinely 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 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.

