

Produktinformation



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Diagnostik & molekulare Diagnostik



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PRODUCT INFORMATION



Influenza A H1N1 (Swine Flu 2009) HA Monoclonal Antibody (Clone 9G1G8)

Item No. 39541

Overview and Properties

Contents: This vial contains 20 or 100 µl of protein A-affinity purified monoclonal antibody

Influenza A H1N1 (Swine Flu 2009) Hemagglutinin Synonym: Recombinant influenza A H1N1 (Swine Flu 2009) HA Immunogen:

Cross Reactivity: (+) H1N1 (A/California/04/2009) HA, H1N1 (A/California/07/2009) HA,

> H1N2 (A/swine/Guangxi/13/2006) HA, H1N3 (A/duck/NZL/160/1976) HA, H5N1 (A/Anhui/1/2005) HA, H5N1 (A/Vietnam/1194/2004) HA, H5N1 (A/ Indonesia/5/2005) HA, H5N1 (A/turkey/Turkey/1/2005) HA, H5N1 (A/bar-headed goose/Qinghai/14/2008) HA; (-) H1N1 (A/Brisbane/59/2007) HA, H1N1 (A/ BrevigMission/1/1918) HA, H1N1 (A/Solomon Islands/3/2006) HA, H1N1 (A/Ohio/ UR06-0091/2007) HA, H1N1 (A/New Caledonia/20/1999) HA, H1N1 (A/Puerto Rico/8/1934) HA, H1N1 (A/WSN/1933) HA, H3N2 (A/Brisbane/10/2007) HA,

Influenza B (B/Florida/4/2006) HA

Form: Liquid

4°C (as supplied) Storage:

Stability: ≥1 year

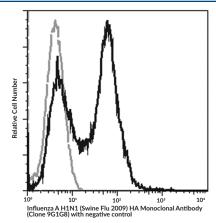
Storage Buffer: 0.2 µm filtered solution in PBS

Clone: 9G1G8 Host: Mouse Isotype: IgG2b

ELISA and Western blot (WB); the recommended starting dilution for ELISA is **Applications:**

1:1.000-1:2,000 and 1:500-1:1,000 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image



Flow cytometric analysis of Influenza A H1N1 (Swine Flu 2009) HA Monoclonal Antibody (Clone 9G1G8). High Five™ cells were collected 48 hours post-infection by Bac-HA. 10° cells were stained with 1 μg of Influenza A H1N1 (Swine Flu 2009) HA Monoclonal Antibody for 20 minutes on ice. Cells were washed twice and incubated with 1 μg of a FITC goat anti-mouse Ig secondary antibody fo 20 minutes on ice. Cells were washed twice and analyzed by flow cytometry.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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PRODUCT INFORMATION



Description

Influenza A H1N1 HA is a type I membrane glycoprotein involved in receptor binding and virus-host cell fusion. 1,2 It is produced as a precursor protein, HAO, which is composed of a stalk and head domain and forms homotrimers on the viral surface. 1,3 The HAO precursor is cleaved into subunits, HA1 and HA2, which are responsible for host cell surface receptor binding and endosomal membrane fusion, respectively, and this cleavage is required for endosomal fusion. For influenza A and influenza B, which are low pathogenic influenza viruses, cleavage occurs via trypsin-like proteases, such as transmembrane serine protease 2 (TMRPSS2), which is essential for influenza A HA, but not influenza B HA, cleavage. Gleaved influenza A H1N1 HA binds to terminal α 2,6- or α 2,3-sialic acids on glycoproteins or glycolipids on the host cell surface via the receptor-binding domain in the HA1 subunit, which triggers endocytosis of the virus and trafficking of the vesicle into the endosome. The low pH environment of the endosome triggers viral rearrangement into a prefusion conformation, and the HA2 subunit facilitates fusion with the endosomal membrane to release viral ribonucleoproteins into the cytosol where they are relocated to the nucleus for viral replication. Cayman's Influenza A H1N1 (Swine Flu 2009) HA Monoclonal Antibody (Clone 9G1G8) can be used for ELISA and Western blot (WB) applications.

References

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