

# Influenza A H1N1 Hemagglutinin antibody

Catalog Number: ATGA0221

## PRODUCT INFORMATION

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**Catalog number**

ATGA0221

**Clone No.**

AT1G7

**Product type**

Monoclonal Antibody

**UnitProt No.**

C7RYS4

**NCBI Accession No.**

ACV04238.1

**Alternative Names**

hemagglutinin, Influenza A virus (A/New York/3571/2009 H1N1) hemagglutinin, HA

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Influenza A

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant Influenza A-H1N1/HA1 (18-344aa) purified from Baculovirus

**Isotype**

IgG1 kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB

**Usage**

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

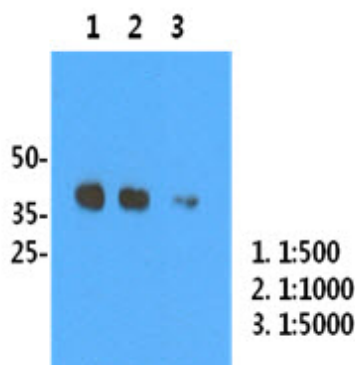
Influenza virus, an enveloped virus of the Orthomyxoviridae family, has a unique capacity for genetic variation that is based in two molecular features of the virus family. First of all, the surface proteins of the virus are highly variable, able to mutate up to 50% of their amino acid sequence and still perform their functions in infection. Secondly, the viral genome is segmented, with eight RNA segments that are genetically independent of one another. In a mixed infection of different influenza genotypes, these segments can almost randomly reassort resulting in hybrid genotypes with some segments derived from one virus strain, while the other segments are derived from a second strain.

### General References

Kilbourne ED: Influenza pandemics of the 20th century. *Emerg Infect Dis* 2006,12:9-14.  
Russell RJ, et al. (2008) *Proc. Natl. Acad. Sci. U.S.A.* 105 (46): 17736-41.  
Aj. Hay, et al. *Philos. Trans. R. Soc. Lond. B Biol. Sci.* 356, 1861(2001).

## DATA

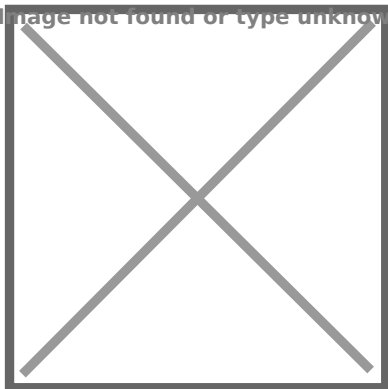
### Western blot analysis (WB)



The recombinant Influenza A-H1N1/HA1 proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-Influenza A-H1N1/HA1 antibody (1:500). (1:1000), (1:5000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

### Additional Information

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ELISA: H1N1/HA1 Antibody (1ug/ml) specifically recognizes H1N1 recombinant protein, but not interacted H3N2 and H5N1 recombinant protein in ELISA. {ATGA0221-Addpic.jpg}