



Catalog Number:	RA19071	Host:	Rabbit
Product Type:	Protein G Purified Antibody	Species Reactivity:	Human
Immunogen Sequence:	A/California/14/2009 (H1N1) virions were used as an immunogen.	Format:	Liquid. 100 ug in 100 ul (1 mg/ml) in PBS containing 0.02% sodium azide
Applications:	Western blot: 1:500-1,000 dilution Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. <i>Avoid repeated freeze-thaw cycles.</i>		
References:	Lamb RA, Krug RM. Orthomyxoviridae: The viruses and their Replication. In: Fields Virology fourth edition, Knipe DM, Howley PM eds, Lippincott, Philadelphia 2001, pp 1487-1531 Wright PF, Webster RG. Orthomyxoviruses. In: Fields Virology fourth edition, Knipe DM, Howley PM eds, Lippincott, Philadelphia 2001, pp 1533-1579		

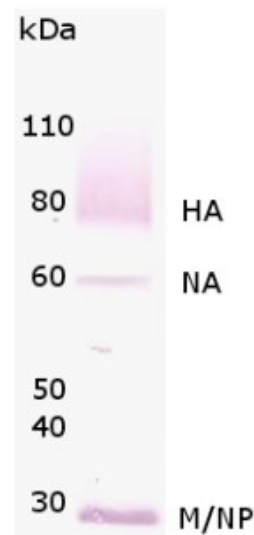
Application Notes

This antibody detects the following H1N1 proteins: Hemagglutinin (HA) ~75 kDa, Neuraminidase monomer (NA) ~55 kDa, Matrix (M) ~26 kDa and Non-structural Protein monomer (NS) ~26-27 kDa. Reacts with A/New Caledonia/20/99, A/Brisbane/10/2007, A/California/14/2009 and likely reacts with most other isolates.

Description/Data:

Influenzavirus A is a genus of the Orthomyxoviridae family of viruses and is a negative sense, single-stranded, segmented RNA virus. Based on the antigenicity of the glycoproteins, influenza A viruses are subdivided into sixteen H (H1-H16) and nine N (N1-N9) subtypes. A standard nomenclature for influenza virus isolates lists the influenza virus type (A or B), the host species (omitted if human origin), the geographical site, year of isolation, and the HA and NA subtype, for example: A/California/14/2009 (H1N1). The main antigenic determinants of influenza A and B viruses are the hemagglutinin (HA) and neuraminidase (NA) transmembrane glycoproteins. Projections of HA and NA cover the surface of the virus particle. NA forms a tetramer with an average molecular weight of 220 kDa (~55 kDa per monomer). The matrix (M) protein of influenza A virus is one of the two group-specific internal proteins of the virion. The non-structural protein (NP) exists as a homeodimer (molecular weight of 52 kDa) consisting of two identical monomers (each ~26 kDa).

Image: Western blot analysis of Influenza A Virus (subtype H1N1). 3 ug of intact A/California/14/2009 H1N1 virions were loaded on SDS-PAGE, transferred to a PVDF membrane and detected with rabbit anti-Influenza A Virus (subtype H1N1) Polyclonal Antibody at a 1:1,000 dilution. Goat anti-rabbit secondary antibody was used at 1:10,000 dilution. The antibody detects: Hemagglutinin (HA) ~75 kDa, Neuraminidase monomer (NA) ~55 kDa, Matrix (M) ~26 kDa and Non-structural Protein monomer (NP) ~26-27 kDa (M and NP often co-migrate as 1 band).



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