

**DESCRIPTION**

<b>Species Reactivity</b>	Influenza A Virus H1N1
<b>Specificity</b>	Detects Influenza A Virus H1N1 Neuraminidase in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant Influenza A Virus H1N1 Neuraminidase Ser37-Lys469 Accession # AAF77036
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunoprecipitation</b>	Optimal dilution of this antibody should be experimentally determined.

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

**BACKGROUND**

Neuraminidase (NA) and hemagglutinin (HA) are major membrane glycoproteins found on the surface of influenza virus. HA is a lectin that binds sialic acid on host cell membrane. NA is a sialic acid hydrolase that specifically clips off terminally located sialic acid on host cell surface. The two proteins are essential for the infectious cycle of the influenza virus. During initial infection, an influenza virus will hold onto an epithelial cell through HA-sialic acid interaction. At the end of an infectious cycle, the NA will cleave the sialic acid on the host cell membrane, releasing the formed viral particle from the HA-sialic acid bondage (1). The neuraminidase activity is also thought to help the virus penetrate mucus. Nine subtypes of NA have been identified, all of which are tetrameric and share a common structure consisting of a globular head, a thin stalk region, and a small hydrophobic region that anchors the protein in the virus membrane (2). The purified recombinant viral H1N1NA consists of amino acid residues 37 to 469 as deduced from the 1918 Spanish flu virus NA (A/Bervig\_Mission/11/18) (3). It has a distinct N-glycan profile and is resistant to trypsin digestion (4).

**PRODUCT SPECIFIC NOTICES**

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