

Swine H1N1 Nonstructural Protein 1 Antibody
Catalog # ASC10964**Specification**

Swine H1N1 Nonstructural Protein 1 Antibody - Product Information

Application	E
Primary Accession	C3W5S7
Other Accession	ACP41110 , 227809839
Reactivity	Virus
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	NS1 antibody can be used for the detection of the NS1 protein from the H1N1 strain of Swine-Origin Influenza A in ELISA.

Swine H1N1 Nonstructural Protein 1 Antibody - Additional Information

Gene ID **2828679**

Target/Specificity

NS1; This antibody is specific for the Swine-Origin H1N1 influenza NS1 and will not recognize the corresponding NS1 sequence from the seasonal H1N1 influenza (A/South Australia/51/2005 (H1N1)).

Reconstitution & Storage

Swine H1N1 Nonstructural Protein 1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

Swine H1N1 Nonstructural Protein 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

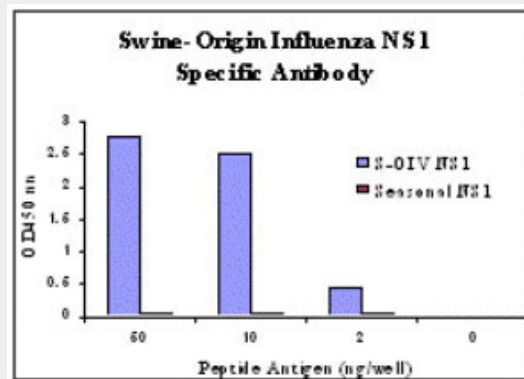
Swine H1N1 Nonstructural Protein 1 Antibody - Protein Information**Swine H1N1 Nonstructural Protein 1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

Swine H1N1 Nonstructural Protein 1 Antibody - Images



ELISA results using Swine H1N1 Nonstructural Protein 1 antibody at 1 µg/mL and the blocking and corresponding peptides at 60, 10, 2 and 0 ng/mL.

Swine H1N1 Nonstructural Protein 1 Antibody - Background

Swine H1N1 Nonstructural Protein 1 Antibody: Influenza A virus is a major public health threat, killing more than 30, 000 people per year in the USA. In early 2009, a novel swine-origin influenza A (H1N1) virus (S-OIV) was identified in specimens obtained from patients in Mexico and the United States. One of the less studied proteins encoded by, but not incorporated in, the influenza virus is the nonstructural protein (NS) 1. NS1 counters cellular antiviral activities and acts as a virulence factor. It can bind to double-stranded RNA and sequester it from 2'-5'OAS, preventing the activation of the RNase L, which normally acts to degrade RNA and prevent virus replication. NS1 also binds to and inhibits the anti-viral protein kinase PKR.

Swine H1N1 Nonstructural Protein 1 Antibody - References

Thompson WW, Shay DK, Weintraub, et al. Mortality associated with influenza and respiratory syncytial virus in the United States. JAMA2003; 289:179-186.
Novel Swine-Origin Influenza A (H1N1) Virus Investigation Team, Dawood FS, Jain S, et al. Emergence of a novel swine-origin influenza A (H1N1) virus in humans. N. Engl. J. Med.2009; 360:2605-15.
Krug RM, Yuan W, Noah D, et al. Intracellular warfare between human influenza viruses and human cells: the role of the viral NS1 protein. Virology2003; 309:181-9.
Min J-Y and Krug RM. The primary function of RNA binding by the influenza A virus NS1 protein is infected cells: inhibiting the 2'-5'oligo (A) synthase/RNase L pathway. Proc. Natl. Acad. Sci. USA2006; 103:7100-5.