

Swine H1N1 Nonstructural Protein 1 Antibody

Catalog # ASC10964

Specification

Swine H1N1 Nonstructural Protein 1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Application Notes E <u>C3W5S7</u> <u>ACP41110</u>, <u>227809839</u> Virus Rabbit Polyclonal IgG 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.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety



• <u>Cell Culture</u> Swine H1N1 Nonstructural Protein 1 Antibody - Images



ELISA results using Swine H1N1 Nonstructural Protein 1 antibody at 1 μ g/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.

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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.

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