

Swine H1N1 Nonstructural Protein 1 Antibody

Catalog No: #24953



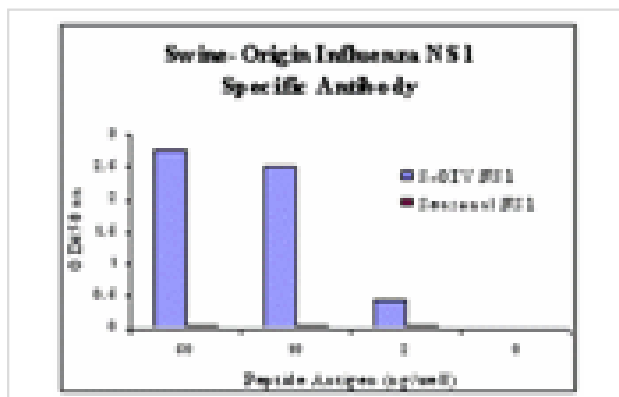
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Description

Product Name	Swine H1N1 Nonstructural Protein 1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	E
Species Reactivity	Virus
Specificity	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)).
Immunogen Type	Peptide
Immunogen Description	Raised against a synthetic peptide from the swine-Origin Influenza NS1.
Target Name	Swine H1N1 Nonstructural Protein 1
Other Names	Swine-Origin Influenza A (H1N1) Nonstructural Protein 1, NS1, S-OIV NS1
Accession No.	ACP41110
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for 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.

Images



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

Background

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 β -5 β 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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.