

Seasonal H1N1 Nucleocapsid Protein Antibody

Catalog No: #24954



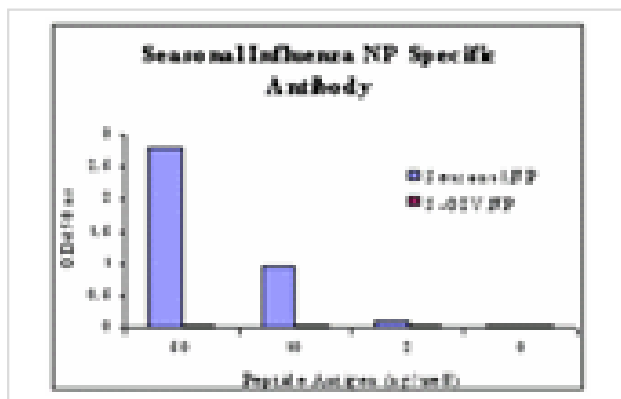
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Description

Product Name	Seasonal H1N1 Nucleocapsid Protein 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 seasonal H1N1 influenza NP and will not recognize the corresponding NP sequence from the swine-origin H1N1 influenza (A/California/14/2009 (H1N1)).
Immunogen Type	Peptide
Immunogen Description	Raised against a synthetic peptide from. The seasonal H1N1 NP protein.
Target Name	Seasonal H1N1 Nucleocapsid Protein
Other Names	Seasonal Influenza A (H1N1) Nucleocapsid Protein, NP, Common flu NP
Accession No.	ACX46223
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 Seasonal H1N1 Nucleocapsid Protein 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. The influenza A virus polymerase transcribes and replicates eight virion RNA (vRNA) segments, among which the nucleocapsid protein (NP), thought to control whether mRNA or cRNA is produced. The nucleoprotein (NP), which has multiple functions during the virus life cycle, possesses regions that are highly conserved among influenza A, B, and C viruses. It was recently found several NP mutations that affected the efficient incorporation of multiple viral-RNA (vRNA) segments into progeny virions even though a single vRNA segment was incorporated efficiently. This indicates that the respective conserved amino acids in NP may be critical for the assembly and/or incorporation of sets of eight vRNA segments.

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