

**Datasheet for 600-401-EX8****Swine H1N1 Nucleocapsid Protein Antibody****Overview**

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| <b>Description:</b>  | Anti-Swine H1N1 Nucleocapsid Protein (RABBIT) Antibody - 600-401-EX8 |
| <b>Item No.:</b>     | 600-401-EX8                                                          |
| <b>Size:</b>         | 100 µg                                                               |
| <b>Applications:</b> | ELISA, IF                                                            |
| <b>Reactivity:</b>   | Virus                                                                |
| <b>Host Species:</b> | Rabbit                                                               |

**Product Details**

**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.

|                      |                                          |
|----------------------|------------------------------------------|
| <b>Synonyms:</b>     | Swine H1N1 Nucleocapsid Protein Antibody |
| <b>Host Species:</b> | Rabbit                                   |
| <b>Clonality:</b>    | Polyclonal                               |
| <b>Format:</b>       | IgG                                      |

**Target Details**

|                        |                    |
|------------------------|--------------------|
| <b>Gene Name:</b>      | NP                 |
| <b>Reactivity:</b>     | Virus              |
| <b>Immunogen Type:</b> | Conjugated Peptide |

|                            |                                                                                                                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Anti-NP antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide from. The swine-Origin H1N1 NP protein.                                                                                                                                                |
| <b>Purity/Specificity:</b> | Anti-Swine H1N1 Nucleocapsid Protein Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for the seasonal H1N1 influenza NP and will not recognize the corresponding NP from the seasonal H1N1 influenza (A/Brisbane/97/2007 (H1N1)). |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - C4AL25</a></li><li>• <a href="#">NCBI - ACQ76305</a></li></ul>                                                                                                                                                                           |

## Application Details

|                             |                                                                                                                                                                                                                                                                             |
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| <b>Tested Applications:</b> | ELISA, IF                                                                                                                                                                                                                                                                   |
| <b>Application Note:</b>    | Anti-Swine H1N1 Nucleocapsid Protein Antibody has been tested for use in ELISA and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 56 kDa in Western Blots of specific cell lysates and tissues. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                             |
| <b>ELISA:</b>               | User Optimized                                                                                                                                                                                                                                                              |
| <b>IF:</b>                  | 20 µg/mL                                                                                                                                                                                                                                                                    |

## Formulation

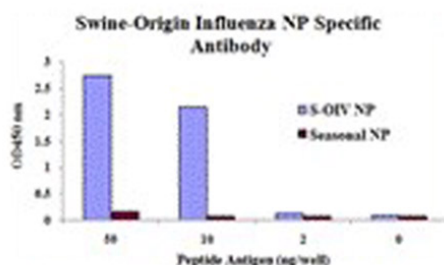
|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance at 280 nm                      |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | None                                                    |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### ELISA

ELISA results of Anti-Swine H1N1 Nucleocapsid Protein Antibody.

Swine-origin Nucleocapsid Protein antibody specifically recognizes (S-OIV NP) swine-origin influenza virus A H1N1 [light purple] but not (seasonal NP) seasonal influenza virus A H1N1 Nucleocapsid protein [dark purple].

## Disclaimer

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