abcam

Product datasheet

Anti-Influenza A Nonstructural Protein 1 antibody ab91642

Overview

Product name	Anti-Influenza A Nonstructural Protein 1 antibody
Description	Rabbit polyclonal to Influenza A Nonstructural Protein 1
Host species	Rabbit
Specificity	Specific for the seasonal Influenza A Nonstructural Protein 1. Does not bind the corresponding Nonstructural Protein 1 from the swine flu Influenza A virus.
Tested applications	**Suitable for:** ELISA
Species reactivity	**Reacts with:** Influenza A
Immunogen	Synthetic peptide specific for the seasonal Influenza A H1N1 Nonstructural Protein 1 (ABP49398).
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab91642 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.

Target

Relevance Influenza A virus is a major public health threat, killing more than 30,000 people per year in the USA. The virus has one of sixteen possible hemagglutinin (HA) surface proteins and one of nine possible neuraminidase (NA) surface proteins. In early 2009, a novel H1N1 swine-origin influenza (S-OIV) A virus was identified in specimens obtained from patients in Mexico and the United States. The genetic make-up of this swine flu virus is unlike any other: it is an H1N1 strain that combines a triple assortment first identified in 1998 including human, swine, and avian influenza with two new pig H3N2 virus genes from Eurasia, themselves of recent human origin. 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 antiviral protein kinase PKR.

Cellular localization host cell cytoplasm and nucleus

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

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