

Avian Influenza Nonstructural Protein 1 Antibody

Catalog No: #24452

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Description

Product Name	Avian Influenza Nonstructural Protein 1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	E
Species Reactivity	Virus
Immunogen Type	Peptide
Immunogen Description	Raised against a synthetic peptide corresponding to 14 amino acids at the carboxy terminus of the Avian Influenza Nonstructural Protein 1 protein. Efforts were made to use relatively conserved regions of the viral sequence as the antigen.
Target Name	Avian Influenza Nonstructural Protein 1
Other Names	Avian Influenza Nonstructural Protein 1, H5N1 NS1, Nonstructural protein 1
Accession No.	ABC72653
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.

Background

Influenza A virus is a major public health threat, killing more than 30,000 people per year in the USA. Novel influenza virus strains caused by genetic drift and viral recombination emerge periodically to which humans have little or no immunity, resulting in devastating pandemics. Influenza A can exist in a variety of animals; however, it is in birds that all subtypes, including the so-called "avian flu" or H5N1, can be found. These subtypes are classified based on the combination of the virus coat glycoproteins hemagglutinin (HA) and neuraminidase (NA) subtypes. 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.