



Avian Influenza Nonstructural Protein 1 Antibody

Cat. No.: 3915



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Virus
IMMUNOGEN:	<p>Avian Influenza Nonstructural Protein 1 antibody was raised against a synthetic peptide corresponding to 14 amino acids at the carboxy terminus of the Avian Influenza Nonstructural Protein 1 protein.</p> <p>Efforts were made to use relatively conserved regions of the viral sequence as the antigen.</p> <p>The immunogen is located within the last 50 amino acids of Avian Influenza Nonstructural Protein 1.</p>
TESTED APPLICATIONS:	ELISA
APPLICATIONS:	Avian Influenza Nonstructural Protein 1 antibody can be used for the detection of the avian influenza nonstructural protein 1 protein from influenza A in ELISA.

Ψ Properties

PURIFICATION:	Avian Influenza Nonstructural Protein 1 Antibody is affinity chromatography purified via peptide column.
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CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	Avian Influenza Nonstructural Protein 1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	Avian Influenza Nonstructural Protein 1 antibody can be stored at 4 °C for three months and -20 °C, stable for up to 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.

Additional Info

ALTERNATE NAMES:	Avian Influenza Nonstructural Protein 1 Antibody:
ACCESSION NO.:	ABC72653
PROTEIN GI NO.:	85680915
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	Avian Influenza Nonstructural Protein 1 Antibody: 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'-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 anti-viral protein kinase PKR.
REFERENCES:	1) Thompson WW, Shay DK, Weintraub, et al. Mortality associated with influenza and respiratory syncytial virus in the United States. JAMA 2003; 289:179-186.
	2) Alexander DJ. A review of avian influenza. Proceedings of the European Society for Veterinary Virology (ESVV) Symposium on Influenza Viruses of Wild and Domestic Animals. Vet. Microbiol. 2000; 74:3-13.
	3) Krug RM, Yuan W, Noah D, et al. Intracellular warfare between human influenza viruses and human cells: the role of the viral NS1 protein. Virology 2003; 309:181-9.

	4) Min J-Y and Krug RM. The primary function of RNA binding by the influenza A virus NS1 protein in infected cells: inhibiting the 2'-5'oligo (A) synthase/RNase L pathway. Proc. Natl. Acad. Sci. USA 2006; 103:7100-5.
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