

AM33457PU-N**Monoclonal Antibody to Influenza A (Nucleoprotein) - Purified**

Quantity:	1 mg
Concentration:	7.03 mg/ml
Background:	<p>Influenza A virus is a major public health threat. 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 can be found. These subtypes are classified based on the combination of the virus coat glycoproteins hemagglutinin (HA) and neuraminidase (NA) subtypes.</p> <p>In natural infection, inactive HA is matured into HA1 and HA2 outside the cell by one or more trypsin-like, arginine-specific endoprotease secreted by the bronchial epithelial cells.</p>
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	AA5H
Immunogen:	<p>Influenza A / Puerto Rico / 8 / 34 (H1N1) and A/Bangkok / 1 / 79 (H3N2) viruses.</p> <p>Remarks: Spleen cells from BALB/c mice were fused with cells of the P3 Ag8.653 mouse myeloma cell line.</p>
Format:	<p>State: Liquid purified IgG fraction (>90% pure by SDS-PAGE)</p> <p>Purification: Affinity Chromatography on Protein A</p> <p>Buffer System: PBS, pH 7.5</p> <p>Preservatives: 15mM Sodium Azide</p>
Applications:	<p>Indirect Immunofluorescence.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	This antibody recognizes Influenza virus A (Nucleoprotein).
Storage:	<p>Store undiluted at 2-8°C.</p> <p>DO NOT FREEZE!</p> <p>Shelf life: one year from despatch.</p>
General Readings:	<ol style="list-style-type: none">1. Herold S, von Wulffen W, Steinmueller M, Pleschka S, Kuziel WA, Mack M, et al. Alveolar epithelial cells direct monocyte transepithelial migration upon influenza virus infection: impact of chemokines and adhesion molecules. <i>J Immunol.</i> 2006 Aug 1;177(3):1817-24. PubMed PMID: 16849492.2. Ehrhardt C, Wolff T, Pleschka S, Planz O, Beermann W, Bode JG, et al. Influenza A virus NS1 protein activates the PI3K/Akt pathway to mediate antiapoptotic signaling responses. <i>J Virol.</i> 2007 Apr;81(7):3058-67. Epub 2007 Jan 17. PubMed PMID: 17229704.3. Ehrhardt C, Wolff T, Ludwig S. Activation of phosphatidylinositol 3-kinase signaling by the nonstructural NS1 protein is not conserved among type A and B influenza viruses. <i>J Virol.</i> 2007 Nov;81(21):12097-100. Epub 2007 Aug 22. PubMed PMID:

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10. Gabay, C. et al. (2011) Impact of synthetic and biological disease modifying antirheumatic drugs on antibody responses to the AS03-adjuvanted pandemic influenza vaccine. *Arthritis Rheum.* Mar 7.. [Epub ahead of print]