

Polyclonal Antibody to Influenza A (Matrix Protein M1) - FITC

Alternate names:	Influenza A Virus, Seasonal Flu
Catalog No.:	BP1038F
Quantity:	1 ml
Concentration:	4-5 mg/ml (OD280 nm, E0.1% = 1.4)
Background:	<p>Influenza virus type A matrix protein, also known as M1, is composed of a 252 amino acid sequence and is type-specific in influenza viruses. It is located inside the viral lipid envelope and plays a key role in virus assembly and replication. M1 can be isolated from particles by removing the envelope with detergents and reducing the pH to 4.0. Influenza viruses are a common and widely spread infectious agent. Like many other viruses, influenza virus are constantly undergoing mutations and thereby avoiding the immune system. The Influenza A Virus M proteins form a continuous shell on the inner side of the lipid bilayer, maintaining the structural integrity of the virus particle through hydrophobic interactions.</p>
Host:	Goat
Immunogen:	Influenza A, Phillipines (H3N2).
Format:	<p>State: Liquid purified Ig fraction. Buffer System: 0.01 M PBS, pH 7.2 containing 10 mg/ml BSA as stabilizer and 0.09% Sodium Azide as a preservative. Label: FITC – Purified IgG fraction covalently coupled with high purity Isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product</p>
Applications:	<p>Direct FA staining of target antigens in a permissive tissue culture system. A starting range of 1/10-1/50 is suggested. Acetone fixation of the antigen source is recommended prior to staining. Not Suitable for use in IHC. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>Recognizes the matrix protein M for any strain of Influenza A. Conservation of the matrix protein sequence between hemagglutinin/Neuraminidase typed strains. Does not react with HEP-2 cells by indirect Immunofluorescence. Does not react with Influenza B, Adenovirus, Respiratory syncytial virus and Parainfluenza viruses (1-3).</p>

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General References:

1. Hui, Eric Ka-Wai, et al., (2003), "Conserved cysteine and histidine residues in the putative zinc finger motif of the influenza A virus M1 protein are not critical for influenza virus replication", *Journal of General Virology*, 84, 3105–3113.
2. Hui, Eric Ka-Wai, et al., (2004), "Inhibition of influenza virus matrix (M1) protein expression and virus replication by U6 promoter-driven and lentivirus-mediated delivery of siRNA", *Journal of General Virology*, 85, 1877–1884.

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