

Product datasheet for **AM00924FC-N**

Influenza A (Nucleoprotein) Mouse Monoclonal Antibody [Clone ID: 431]

Product data:

Product Type:	Primary Antibodies
Clone Name:	431
Applications:	IF
Recommended Dilution:	Suitable for use in IFA and Immunohistochemistry. A starting dilution of 1/5-1/20 is recommended. Direct FA staining of target antigen in a permissive tissue culture system. Acetone fixation of the antigen source is recommended prior to staining.
Reactivity:	Influenza A Virus
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Purified virions
Specificity:	This antibody reacts to Influenza A-specific for nucleoprotein. Reactive with all A strains.
Formulation:	0.01M PBS, pH 7.2 containing 10mg/ml BSA and 0.09% Sodium Azide Label: FITC State: Liquid IgG fraction Label: High purity isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

The nucleoprotein (NP) of Influenza virus encapsulates the negative strand of the viral RNA and is essential for replicative transcription. It may also be involved in other essential functions throughout the virus life cycle. As well as binding ssRNA, NP is able to self associate to form large oligomeric complexes. NP is able to interact with a variety of other macromolecules of both viral and cellular origins. It binds the PB1 and PB2 subunits of the polymerase and the matrix protein M1.

"NP has also been shown to interact with at least four cellular polypeptide families: nuclear import receptors of the importin class, filamentous (F) actin, the nuclear export receptor CRM1 and a DEAD box helicase BAT1/UAP56" (Portela et al 2002).

Synonyms:

Influenza A Virus, Seasonal Flu