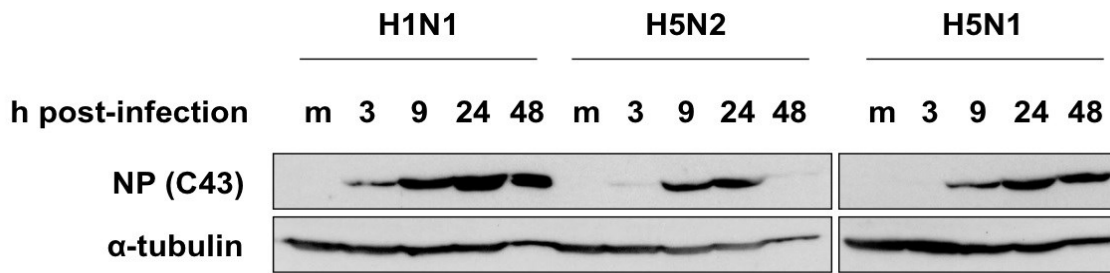


## Anti-Influenza A Virus NP antibody, mouse monoclonal (C43) (FITC)

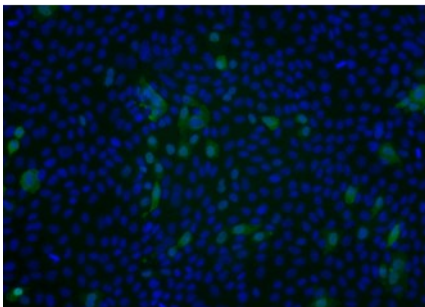
<b>Product code</b>	65-112
<b>Size</b>	50 µg
<b>Storage</b>	-20°C
<b>Concentration</b>	1.0 mg/ml
<b>Buffer</b>	PBS- with 50% glycerol
<b>Purity</b>	Purified IgG fraction with protein A from hybridoma cell culture medium. Purified FITC-conjugated IgG fraction by gel filtration chromatography.
<b>Immunogen</b>	Human Influenza A Virus (H2N2) Okada strain
<b>Isotype</b>	mouse IgG2ak
<b>Reactivity</b>	Reacts with NP of all influenza A viruses tested, including seasonal H2N2, H3N2, and avian H5N1, H5N2 and H1N1 (seasonal, pandemic and swine). No cross reactivity with influenza B viruses.
<b>Special notes</b>	Conjugation : FITC
<b>Application</b>	1. Immunofluorescence (100~1,000 fold dilution)
<b>Background</b>	<p><b>Influenza virus</b> is an RNA virus, which causes influenza, and belongs to the family Orthomyxoviridae. Influenza virus is classified into three different genera, influenzavirus A, B, and C. They all have similar structures and compositions. The virions are 80-100nm in diameter and usually roughly spherical. The outer surface of the virion is made of a viral envelope containing two major glycoproteins, hemagglutinin (HA) and neuraminidase (NA). Influenza virus A is further classified into subtypes based on the surface glycoproteins, HA and NA. Currently, there are 16 HA and 9 NA subtypes. The central core of the virion contains the viral RNA genome, which is packaged in the form of ribonucleoprotein complexes.</p> <p><b>Influenza virus nucleoprotein (NP)</b> is a major component of the ribonucleoprotein complex and is abundantly expressed during the course of infection. It is a structural protein, which encapsidates the negative strand viral RNA and is essential for RNA transcription, replication and packaging. NP binds the PB1 and PB2 subunits of the viral RNA polymerase and the matrix protein M1, in addition to its binding to ssRNA. NP is also known to interact with variety of other macromolecules of both viral and cellular origins, and these interactions have been shown to be essential for the viral lifecycle.</p>
<b>Data Link</b>	UniProtKB <a href="#">Influenza NP</a>
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 65-112 Anti-Influenza A Virus NP antibody, mouse monoclonal (C43) (FITC)



**Fig.1. Western blotting of MDCK cells infected with H1N1 (A/PuertoRico/8/34), H5N1 (A/duck/HK/342/78), or H5N2 (A/crow/Kyoto/53/04) using C43 antibody.** Samples were collected at 3, 9, 24, and 48 hours post-infection. C43 detected NP after 3 hours post-infection and detected three different types of influenza viruses. (#65-110 anti-Influenza A virus NP antibody (C43) was used as primary antibody.)

### Influenza A virus /MDCK



**Fig.2 . Immunofluorescence staining of Influenza A infected MDCK cells by using #65-112** Immunofluorescence assay of MDCK cells derived from canine kidney cells that were infected with influenza virus A (AH1pdm09) at 24 hours post-infection. #65-112 anti-Influenza A NP antibody (C43) conjugated FITC efficiently detected virus infected the cells were fixed with 4% paraformaldehyde in PBS<sup>-</sup> and permeabilized with 0.25% Triton X-100 in PBS<sup>-</sup>. Nuclei were stained with DAPI

### Related products

65-110 Anti-Influenza A Virus NP antibody, mouse monoclonal (C43)

65-111 Anti-Influenza A Virus NP antibody, mouse monoclonal (C43) (HRP)

**References:** This antibody has not yet been referenced.