

Anti-Influenza A Virus Nucleoprotein antibody, mouse monoclonal (C43), HRP-conjugated

Product code	65-111
Size	50 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium. Purified HRP-conjugated IgG fraction by gel filtration chromatography.
Immunogen	Human Influenza A Virus (H2N2) Okada strain
Isotype	mouse IgG2a κ
Reactivity	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.
Special notes	Conjugation : HRP
Application	1. Western blotting (300~1,000 fold dilution) 2. ELISA (assay dependent)
Background	<p>Influenza virus 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). Influenzavirus 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>Influenza virus nucleoprotein (NP) 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>
Data Link	UniProtKB Influenza NP
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 65-111 Anti-Influenza A Virus Nucleoprotein antibody, mouse monoclonal (C43), HRP-conjugated

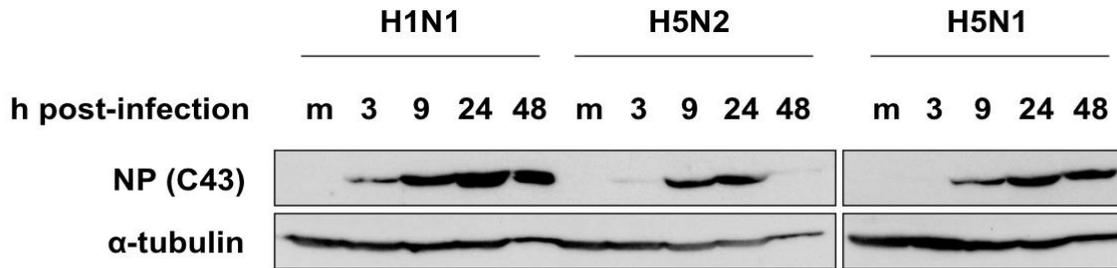


Fig.1. Western blotting of MDCK cells infected with H1N1 (A/PuertoRico/8/34), H5N1 (A/duck/HK/342/78), or H5N2 (A/crow/Kyoto/53/04) using C43 antibody. Samples were collected at 3, 9, 24, and 48 hours post-infection. C43 detected NP after 3 hours post-infection and detected three different types of influenza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

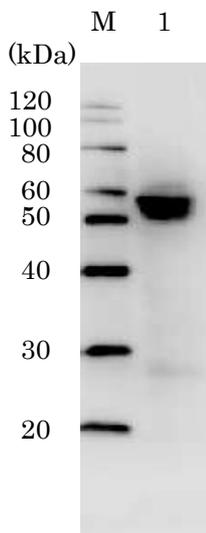


Fig.2 Western blotting of MDCK cells infected with H1N1 (A/PuertoRico/8/34) using HRP-conjugated C43 antibody. Proteins in the infected cell lysate was separated by 15% SDS-PAGE and blotted to PVDF membrane. The membrane was reacted with C43 monoclonal antibody conjugated with HRP at 1/1,000 dilution and visualized by Chemi-Luminescence.

Related products:

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

References: This antibody has not yet been referenced.