abcam

Product datasheet

Anti-Influenza A Virus Nucleoprotein antibody [C43] ab128193

33 References 4 Images

Overview

Product name	Anti-Influenza A Virus Nucleoprotein antibody [C43]
Description	Mouse monoclonal [C43] to Influenza A Virus Nucleoprotein
Host species	Mouse
Specificity	Reacts with NP of all influenza A viruses so far tested, including seasonal H2N2, H3N2(A/Sydney/5/1997), and H5N1(A/crow/Kyoto53/2004), H5N1 (A/duck/Egypt/D2br10/07), H5N1(A/duck/HK/342/78), H5N2(A/crow/Kyoto/53/04), H9N1, H9N2 (A/Turkey/Wisconsin/1/66) and H1N1 (seasonal: A/New Caledonia/20/99. Pandemic: A/Suita/01/2009 and swine: A/PuertoRico/8/34). No cross reactivity with influenza B viruses.
Tested applications	**Suitable for:** WB, ELISA, ICC/IF, Flow Cyt
Species reactivity	**Reacts with:** Influenza A
Immunogen	Tissue, cells or virus corresponding to Influenza A Virus Nucleoprotein. Human Influenza A Virus H3N2 strain Database link: **P69291**
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 6 Constituents: 50% Glycerol, 49% PBS
Purity	Proprietary Purification

Purification notes	Produced in serum-free medium and purified by proprietary chromatography procedure under mild conditions. 90~95% pure by SDS-PAGE
Clonality	Monoclonal
Clone number	C43
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab128193 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

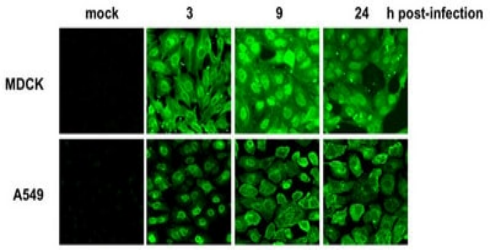
Application	Abreviews	Notes
WB		1/300 - 1/1000.
ELISA		Use at an assay dependent concentration.
ICC/IF		1/200.
Flow Cyt		Use at an assay dependent concentration. PubMed: 24067955 **ab170191** - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

Relevance 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).

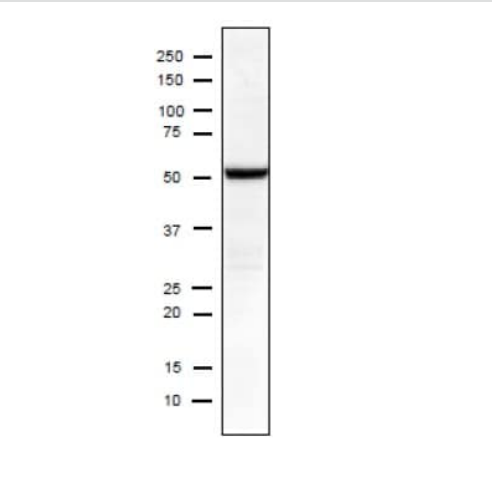
Cellular localization Host cell nucleus

Images



Immunocytochemistry/ Immunofluorescence - Anti-Influenza A Virus Nucleoprotein antibody [C43] (ab128193)

Immunofluorescence assay of MDCK cells derived from canine kidney cells, and A549 cells derived from human lung carcinoma cells, that were infected with H1N1 influenza virus (A/PuertoRico/8/34). Samples were taken at 3, 9, and 24 hours post-infection. Influenza A Virus Nucleoprotein antibody (ab128193) efficiently detected virus-infected MDCK and A549 cells as early as 3 h after infection. The cells were fixed with 4% paraformaldehyde in phosphate-buffered saline (PBS) and permeabilized with 0.1% 0.1% Triton X-100 in PBS. The bound antibody was visualized by a further reaction with an green flurescent secondary antibody.

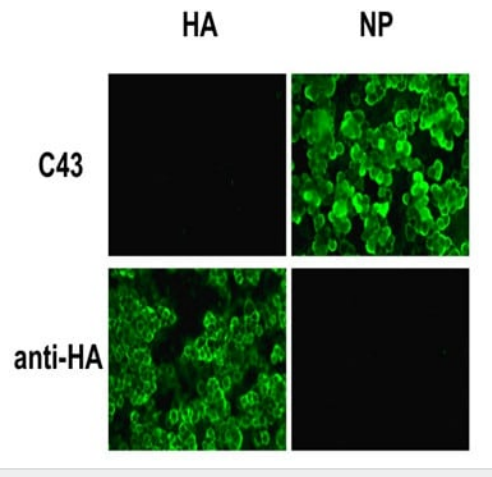


Western blot - Anti-Influenza A Virus Nucleoprotein antibody [C43] (ab128193)

Anti-Influenza A Virus Nucleoprotein antibody [C43] (ab128193) at 1/1000 dilution + MDCK cells infected with Influenza A virus (H1N1) PuertoRico/8/34

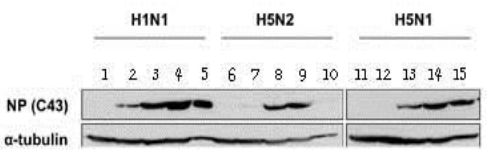
Secondary

Rabbit Anti-Mouse IgG H&L (HRP) (**ab97046**) at 1/10000 dilution



Immunocytochemistry/ Immunofluorescence - Anti-Influenza A Virus Nucleoprotein antibody [C43] (ab128193)

Immunofluorescence assay of 293T cells expressing HA or NP of pandemic (H1N1) 2009 influenza A virus (A/Suita/1/2009). Influenza A Virus Nucleoprotein antibody (ab128193) specifically recognized NP-expressing cells while a proprietary mouse anti-HA monoclonal antibody specifically recognized HA.



Western blot - Anti-Influenza A Virus Nucleoprotein antibody [C43] (ab128193)

All lanes : Anti-Influenza A Virus Nucleoprotein antibody [C43] (ab128193) at 1/300 dilution

Lanes 1 & 6 & 11 : MDCK cells mock infected
Lane 2 : MDCK cells infected with H1N1 (A/PuertoRico/8/34) collected 3 hrs post-infection
Lane 3 : MDCK cells infected with H1N1 (A/PuertoRico/8/34) collected 9 hrs post-infection
Lane 4 : MDCK cells infected with H1N1 (A/PuertoRico/8/34) collected 24 hrs post-infection
Lane 5 : MDCK cells infected with H1N1 (A/PuertoRico/8/34) collected 48 hrs post-infection
Lane 7 : MDCK cells infected with H5N2 (A/crow/Kyoto/53/04) collected 3 hrs post-infection
Lane 8 : MDCK cells infected with H5N2 (A/crow/Kyoto/53/04) collected 9 hrs post-infection
Lane 9 : MDCK cells infected with H5N2 (A/crow/Kyoto/53/04) collected 24 hrs post-infection
Lane 10 : MDCK cells infected with H5N2 (A/crow/Kyoto/53/04) collected 48 hrs post-infection
Lane 12 : MDCK cells infected H5N1 (A/duck/HK/342/78)collected 3 hrs post-infection
Lane 13 : MDCK cells infected with H5N1 (A/duck/HK/342/78) collected 9 hrs post-infection
Lane 14 : MDCK cells infected with H5N1 (A/duck/HK/342/78) collected 24 hrs post-infection
Lane 15 : MDCK cells infected with H5N1 (A/duck/HK/342/78) collected 48 hrs post-infection

Tubulin was used as loading control.

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