abcam

ab207414

Anti-MX1 antibody [EPR19967]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR19967
Purification technique	Affinity purification Protein A
Concentration	0.639 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/40 - 1/1000
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/2000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/250
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information MX1

Function Interferon-induced dynamin-like GTPase with antiviral activity against a wide range of RNA viruses and some DNA viruses. Its target viruses include negative-stranded RNA viruses and HBV through binding and inactivation of their ribonucleocapsid. May also antagonize reoviridae and asfarviridae replication. Inhibits thogoto virus (THOV) replication by preventing the nuclear import of viral nucleocapsids. Inhibits La Crosse virus (LACV) replication by sequestering viral nucleoprotein in perinuclear complexes, preventing genome amplification, budding, and egress. Inhibits influenza A virus (IAV) replication by decreasing or delaying NP synthesis and by blocking endocytic traffic of incoming virus particles. Enhances ER stress-mediated cell death after influenza virus infection. May regulate the calcium channel activity of TRPCs.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

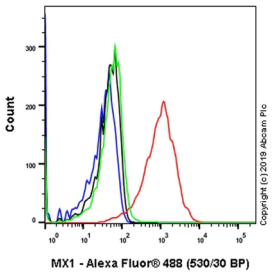
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

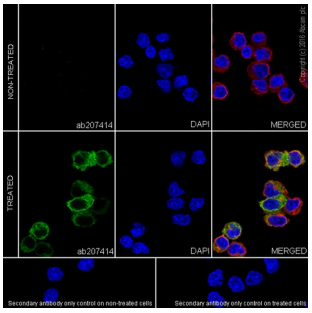
5 product images



Flow Cytometry (Intracellular) - Anti-MX1 antibody [EPR19967] (ab207414)

MX1 Flow Cytometry (Intracellular) staining using rabbit Anti-MX1 antibody

Intracellular Flow Cytometry analysis of Daudi (Human Burkitt's lymphoma lymphoblast) treated with 20U/mL IFN alpha 1 for 24h cells labeling MX1 with purified ab207414 at 1/500 dilution (1µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cells without incubation with primary antibody and secondary antibody (Blue). Untreated control (Green).

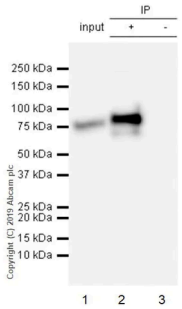


Immunocytochemistry/ Immunofluorescence - Anti-MX1 antibody [EPR19967] (ab207414)

MX1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MX1 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Daudi (Human Burkitt's lymphoma cell line) cells labeling MX1 with ab207414 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing negative staining on Daudi cell line. Expression was induced and showed cytoplasmic staining after cells were treated with IFN alpha 1 (20 U/ml) for 24h. The nuclear counterstain is DAPI (blue).
Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.



Immunoprecipitation - Anti-MX1 antibody [EPR19967] (ab207414)

Blocking buffer and concentration: 5% NFDM/TBST
Diluting buffer and concentration: 5% NFDM/TBST
All lanes:
Immunoprecipitation - Anti-MX1 antibody [EPR19967] (ab207414) at 1/1000 dilution

Lanes 1 - 2:
Daudi (Human Burkitt's lymphoma lymphoblast) treated with 20 U/ml IFN alpha 1 for 24 hours whole cell lysate at 10 µg

Lane 3:

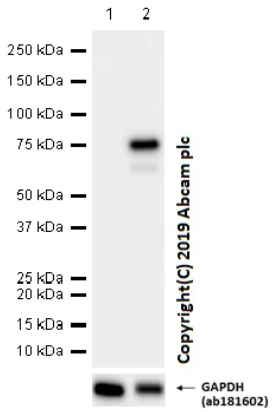
Rabbit monoclonal IgG (ab172730) instead of ab207414 in Daudi treated with 20 U/ml IFN alpha 1 for 24 hours whole cell lysate at 10 µg

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Predicted band size: 76 kDa

Observed band size: 76 kDa



Western blot - Anti-MX1 antibody [EPR19967] (ab207414)

MX1 Western blot staining using rabbit Anti-MX1 antibody

Blocking buffer and concentration: 5% NFDM/TBST
Diluting buffer and concentration: 5% NFDM /TBST
Exposure time: 3.25 seconds

All lanes:
Western blot - Anti-MX1 antibody [EPR19967] (ab207414) at 1/2000 dilution

Lane 1:
Untreated Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysate at 20 µg

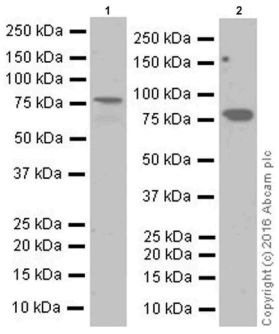
Lane 2:
Daudi (Human Burkitt's lymphoma lymphoblast) treated with 20 U/ml IFN alpha 1 for 24 hours whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 76 kDa

Observed band size: 76 kDa



Western blot - Anti-MX1 antibody [EPR19967] (ab207414)

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: Lane 1: 3 seconds; Lane 2: 1 minute.

All lanes:
Western blot - Anti-MX1 antibody [EPR19967] (ab207414) at 1/1000 dilution

Lane 1:
Human spleen lysate at 10 µg

Lane 2:
Human tonsil lysate at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 76 kDa

Observed band size: 76 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.