abcam

Product datasheet

Anti-MX1 antibody [EPR19967] ab207414

Recombinant RabMAb

6 References 6 Images

Overview

Product name	Anti-MX1 antibody [EPR19967]
Description	Rabbit monoclonal [EPR19967] to MX1
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, ICC/IF, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Daudi treated with 20U/ml IFN alpha 1 for 24 hours whole cell lysate; Human spleen and tonsil lysates; Untreated Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysate ICC/IF: Daudi cells treated with 20U/ml IFN alpha 1 for 24 hours. IP: Daudi treated with 20 U/ml IFN alpha 1 for 24 hours whole cell lysate Flow Cyt (intra): Daudi cells
General notes	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19967

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab207414 in the following tested applications.

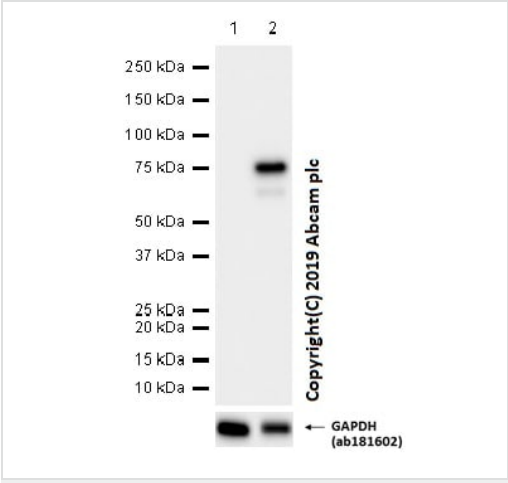
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/500. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/40 - 1/1000.
ICC/IF		1/250.
WB		1/1000 - 1/2000. Detects a band of approximately 76 kDa (predicted molecular weight: 76 kDa).

Target

Function	May regulate the calcium channel activity of TRPCs. Shows activity against influenza virus and VSV, a rhabdovirus.
Sequence similarities	Belongs to the dynamin family. Contains 1 GED domain.
Cellular localization	Cytoplasm.

Images



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

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

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

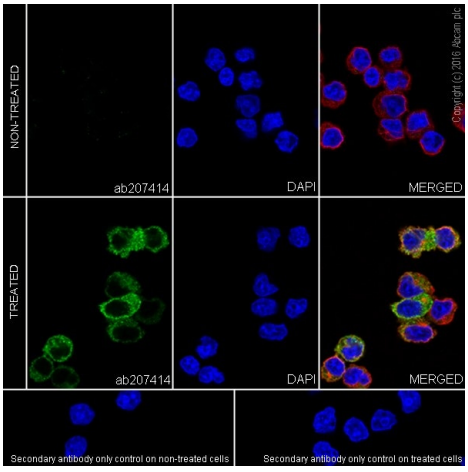
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 76 kDa
Observed band size: 76 kDa

Blocking buffer and concentration: 5% NFDM/TBST
Diluting buffer and concentration: 5% NFDM /TBST

Exposure time: 3.25 seconds

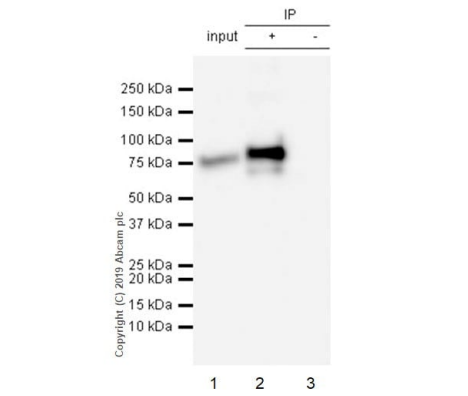


Immunocytochemistry/ Immunofluorescence - Anti-MX1 antibody [EPR19967] (ab207414)

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

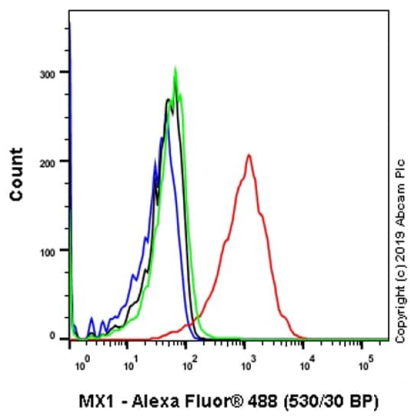
All lanes : Anti-MX1 antibody [EPR19967] (ab207414) at 1/1000 dilution

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

Lysates/proteins at 10 µg per lane.

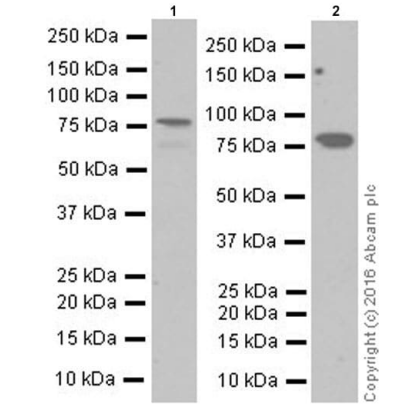
Secondary
All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/5000 dilution (VeriBlot for IP detection reagent (HRP))

Observed band size: 76 kDa



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

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).



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

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

Lane 1 : Human spleen lysate
Lane 2 : Human tonsil lysate

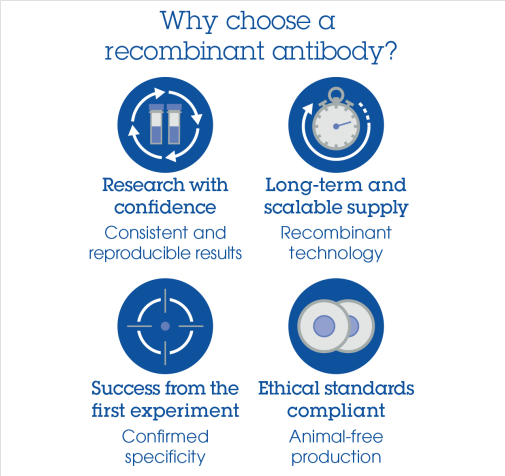
Lysates/proteins at 10 µg per lane.

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

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 3 seconds; Lane 2: 1 minute.



Anti-MX1 antibody [EPR19967] (ab207414)

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