**Product name**: Anti-MX1 antibody [EPR19967] ab207414

**Description**: Rabbit monoclonal [EPR19967] to MX1

**Host species**: Rabbit

**Tested applications**: Suitable for: IP, Flow Cyt, ICC/IF, WB

**Species reactivity**: Reacts with: Human

**Immunogen**: Synthetic peptide within Human MX1 aa 100-200. The exact sequence is proprietary. Database link: P20591

**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

**General notes**: Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

**Form**: Liquid


**Storage buffer**: Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

**Purity**: Protein A purified

**Clonality**: Monoclonal

**Clone number**: EPR19967

**Isotype**: IgG

**Applications**
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.

### Abreviews Notes

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IP</td>
<td>1/40 - 1/1000.</td>
<td></td>
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<tr>
<td>Flow Cyt</td>
<td>1/600.</td>
<td>Rab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
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<tr>
<td>ICC/IF</td>
<td>1/250.</td>
<td></td>
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<tr>
<td>WB</td>
<td>1/1000 - 1/2000. Detects a band of approximately 76 kDa (predicted molecular weight: 76 kDa).</td>
<td></td>
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</table>

### 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

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

why is the actual band size different from the predicted?

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

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.
**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.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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