**Product name**
Anti-MX1 antibody [EPR19967]  
**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.  

**Properties**
- **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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<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><strong>ab172730</strong> - 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>
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**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.

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

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