

## Rabbit MX1 Polyclonal Antibody | anti-MX1 antibody

MX1 Antibody

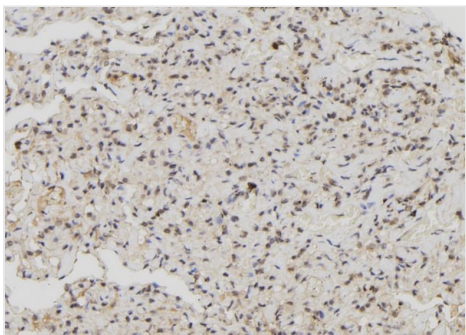
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA326377 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

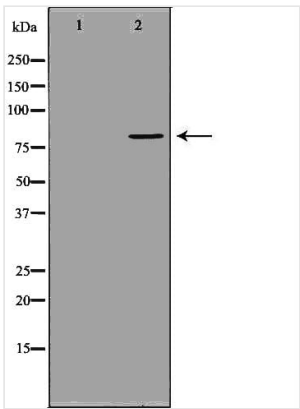
MX1; Polyclonal Antibody; MX1 Antibody; Human interferon regulated resistance GTP binding protein MXA; IFI 78; IFI 78K; IFI-78K; IFI78; IFI78K; Interferon induced GTP binding protein Mx1; Interferon induced protein p78; Interferon inducible protein p78; Interferon regulated resistance GTP binding protein; Interferon regulated resistance GTP binding protein MxA; Interferon-induced GTP-binding protein Mx1; Interferon-induced protein p78; Interferon-regulated resistance GTP-binding protein MxA; MX 1; MX; MX dynamin-like GTPase 1; MX1\_HUMAN; MxA; Myxoma resistance protein 1; Myxovirus (influenza virus) resistance 1 interferon inducible; Myxovirus (influenza virus) resistance 1 interferon inducible protein p78; Myxovirus (influenza) resistance 1 homolog of murine; Myxovirus resistance 1; mouse; homolog of; Myxovirus resistance protein 1; N-terminally processed; anti-MX1 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                        |
| Reactivity                                    | Human, Mouse, Rat                                                                             |
| Clonality                                     | Polyclonal                                                                                    |
| Isotype                                       | IgG                                                                                           |
| Specificity                                   | MX1 antibody detects endogenous levels of total MX1                                           |
| Purity/Purification                           | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                   | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                 | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                               | 662                                                                                           |
| Applicable Applications for anti-MX1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                     | A synthesized peptide derived from human MX1                                                  |
| Subcellular Location                          | Cytoplasm.                                                                                    |
| Tissue Specificity                            | By type I and type III interferons. Isoform 2 is induced by HSV-1.                            |
| Conjugation                                   | Unconjugated                                                                                  |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                             |



**IHC (Immunohistochemistry)**  
AAA326377 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**WB (Western Blot)**  
Western blot analysis of extracts of mouse spleen tissue, using MX1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MX1 antibody

Description: Mx1 (also known as MxA) is a GTPase that belongs to the Mx family of proteins, which are ubiquitous in eukaryotes and involved in the immune response to viral infections. The human Mx1 is localized in the cytoplasm interfering with the translation of viral proteins, whereas the mouse Mx1 accumulates in the nucleus and inhibits the primary transcription of viral RNA. Mx1 expression is induced by treatment with alpha/beta interferon (INF). This antibody can recognize the endogenous Mx1 protein in several tissues like lung and spleen.

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.

Subunit Structure: Homotetramer. Oligomerizes into multimeric filamentous or ring-like structures by virtue of its stalk domain. Oligomerization is critical for GTPase activity, protein stability, and recognition of viral target structures. Interacts with TRPC1, TRPC3, TRPC4, TRPC5, TRPC6 and TRPC7. Interacts with HSPA5. Interacts with DDX39A and DDX39B. Interacts with TUBB/TUBB5 (By similarity). The GTP-bound form interacts (via C-terminus) with THOV P5 protein. The GTP-bound form interacts with LACV protein N. Interacts with CCHFV protein N.

Post-translational Modifications: ISGylated.

Similarity: The C-terminal GTPase effector domain (GED) is involved in oligomerization and viral target recognition. The middle domain mediates self-assembly and oligomerization. Belongs to the TRAFAC class dynamin-like GTPase superfamily. Dynamin/Fzo/YdjA family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 222136619                                                                                      |
| NCBI GeneID                      | 4599                                                                                           |
| NCBI Accession #                 | NP_001138397.1                                                                                 |
| NCBI GenBank Nucleotide #        | NM_001144925.2                                                                                 |
| UniProt Accession #              | P20591; Q86YP5; Q96CI3; B2RDA5; B3KU10; C9IYV7; C9J8D6; C9JN19; C9JN88; C9JUL1; C9JZS6; D3DSI8 |
| Molecular Weight                 | Observed: 76 kDa<br>Predicted: 76 kDa                                                          |
| NCBI Official Full Name          | interferon-induced GTP-binding protein Mx1 isoform a                                           |
| NCBI Official Synonym Full Names | MX dynamin like GTPase 1                                                                       |

|                               |                                            |
|-------------------------------|--------------------------------------------|
| NCBI Official Symbol          | MX1                                        |
| NCBI Official Synonym Symbols | MX; MxA; IFI78; IFI-78K                    |
| NCBI Protein Information      | interferon-induced GTP-binding protein Mx1 |
| UniProt Protein Name          | Interferon-induced GTP-binding protein Mx1 |
| UniProt Gene Name             | <b>MX1</b>                                 |
| UniProt Synonym Gene Names    | IFI-78K                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mx1-antibody-immunohistochemistry-western-blot-elisa/326377>