

# MX1 + MX2 Rabbit pAb

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### **Product Information**

**Application** IHC-P, IHC-F, IF

Primary Accession P20592
Other Accession P20592

**Reactivity** Rat, Pig, Dog, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 82089
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human IFI78/MX1

Epitope Specificity 301-400/662

**Isotype** IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

**SUBCELLULAR LOCATION** Cytoplasm.

**SIMILARITY** Belongs to the dynamin family.Contains 1 GED domain. **SUBUNIT** Interacts with TRPC1, TRPC3, TRPC4, TRPC5, TRPC6 and TRPC7.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** Members of the Dynamin family include GTPase, microtubule-associated

proteins that are involved in cellular trafficking, including microtubule bundling and endocytosis. Mx1, also known as MxA, an interferon (IFN)-induced protein, acquires a high degree of resistance to influenza A virus and the rhabdo-virus vesicular stomatitis virus (VSV), which suggests that Mx1 plays an active role against influenza virus and the rhabdovirus VSV. Mx1 is a cytoplasmic protein that is 63% identical to the Mx2 protein, which lacks antiviral activity. Mx2 is also known as MxB and is localized at the cytoplasmic face of nuclear pores. Mx2 expression is not interferon-dependent and this protein is thought to regulate the efficiency and/or kinetics of nuclear import,

a function which may have been usurped by its antiviral relatives.

#### **Additional Information**

**Gene ID** 4600

Other Names Interferon-induced GTP-binding protein Mx2, Interferon-regulated resistance

GTP-binding protein MxB, Myxovirus resistance protein 2, p78-related protein,

MX2

**Dilution** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## **Protein Information**

Name MX2

**Function** Interferon-induced dynamin-like GTPase with potent antiviral activity against

human immunodeficiency virus type 1 (HIV-1). Acts by targeting the viral capsid and affects the nuclear uptake and/or stability of the HIV-1 replication complex and the subsequent chromosomal integration of the proviral DNA. Exhibits antiviral activity also against simian immunodeficiency virus (SIV-mnd). May play a role in regulating nucleocytoplasmic transport and

cell-cycle progression.

**Cellular Location** Cytoplasm. Nucleus. Nucleus, nuclear pore complex. Note=Localization to

nuclear pores requires GTP-binding

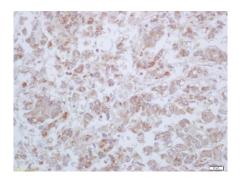
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#### References

Aebi M., et al. Mol. Cell. Biol. 9:5062-5072(1989). Horisberger M.A., et al. J. Virol. 64:1171-1181(1990). Tazi-Ahnini R., et al. Hum. Genet. 106:639-645(2000). Ku C.C., et al. Immunol. Cell Biol. 89:173-182(2011). Ota T., et al. Nat. Genet. 36:40-45(2004).

## **Images**



Tissue/cell: human liver carcinoma; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-MX1+MX2 Polyclonal Antibody, Unconjugated(AP50883) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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