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MX1 + MX2 Rabbit pAb

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Catalog # AP50883

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P20592
Other Accession	P20592
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Horse, Sheep
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.
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

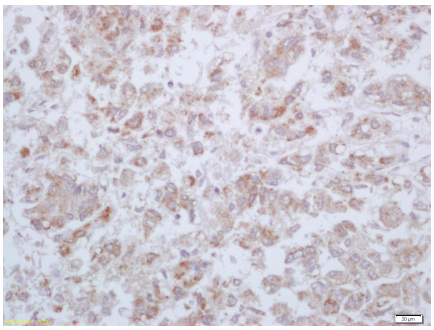
Background

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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℃ 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'.