

Mouse MX1 Monoclonal Antibody | anti-MX1 antibody

MX1 Antibody

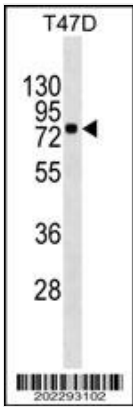
CATALOG # AAA283431	HOST Mouse	REACTIVITY Human (Predicted Reactivity: Pig)	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

MX1; Monoclonal Antibody; MX1 Antibody; Interferon-induced GTP-binding protein Mx1; Interferon-induced protein p78; IFI-78K; Interferon-regulated resistance GTP-binding protein MxA; Myxoma resistance protein 1; Myxovirus resistance protein 1; N-terminally processed; anti-MX1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human (Predicted Reactivity: Pig)
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	474CT4.1.5
Specificity	This MX1 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 617-646 amino acids from human MX1.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	617-646
Sequence Length	508
Applicable Applications for anti-MX1 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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 togoto 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.
Cellular Location	Cytoplasm. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, perinuclear region. Note=Binds preferentially to negatively charged phospholipids (PubMed:21900240). Colocalizes with CCHFV protein N in the perinuclear region (PubMed:15047845)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
MX1 Antibody western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the MX1 antibody detected the MX1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-MX1 antibody	In mouse, the interferon-inducible Mx protein is responsible for a specific antiviral state against influenza virus infection. The protein encoded by this gene is similar to the mouse protein as determined by its antigenic relatedness, induction conditions, physicochemical properties, and amino acid analysis. This cytoplasmic protein is a member of both the dynamin family and the family of large GTPases. Two transcript variants encoding the same protein have been found for this gene.
Product Categories/Family for anti-MX1 antibody	Immunology; Microbiology
References	Silva, L.K., et al. Eur. J. Hum. Genet. 18(11):1221-1227(2010) van der Voort, L.F., et al. Neurology 75(14):1228-1233(2010) Ching, J.C., et al. J. Infect. Dis. 201(12):1899-1908(2010) Zhijian, Y., et al. Virol. J. 7, 278 (2010) : Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	222136619
NCBI GeneID	4599
NCBI Accession #	NP_001138397.1; NP_001171517.1; NP_002453.2
NCBI GenBank Nucleotide #	NM_001144925.2
UniProt Accession #	P20591; Q86YP5; Q96CI3; B2RDA5; B3KU10; C9IYV7; C9J8D6; C9JN19; C9JN88; C9JUL1; C9JZS6; D3DSI8
Molecular Weight	75520
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	MX1
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/monoclonal/mx1-antibody-clone-474ct4-1-5-western-blot-elisa/283431>