

For Research Use Only

MX1 Polyclonal antibody

Catalog Number: 13750-1-AP

Featured Product

95 Publications



Basic Information

| | | |
|---|---|---|
| Catalog Number: 13750-1-AP | GenBank Accession Number: BC032602 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 550 ug/ml by Nanodrop; | GeneID (NCBI): 4599 | Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P20591 | |
| Isotype: IgG | Full Name: Myxovirus resistance protein 1 | |
| Immunogen Catalog Number: AG4692 | Calculated MW: 662 aa, 76 kDa | |
| | Observed MW: 76 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA | Positive Controls: WB : IFN alpha treated A549 cells, mouse lung tissue IHC : human tonsillitis tissue, human lung cancer tissue IF/ICC : A549 cells, |
| Cited Applications: WB, IHC, IF, FC (Intra), IP | |
| Species Specificity: human, mouse | |
| Cited Species: human, mouse, pig, canine, monkey, chicken, hamster, pavo cristatus, macaque | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

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 α/β IFN. This antibody can recognize the endogenous Mx1 protein in several tissues like lung and spleen.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------------|-----------|----------------|-------------|
| Yuki Kurebayashi | 34529742 | PLoS Pathog | WB,IF |
| Xiaodan Yang | 27527594 | J Immunol | WB |
| Kang An | 25357264 | J Proteome Res | WB |

Storage

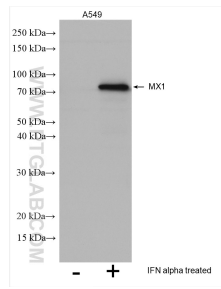
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

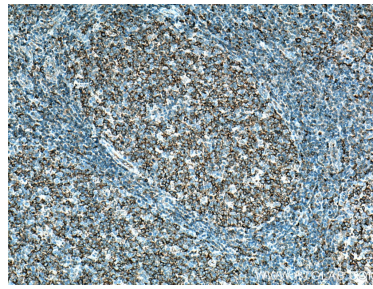
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

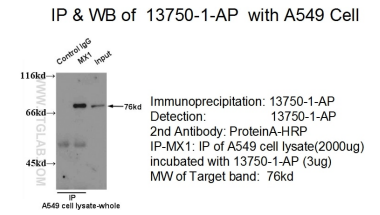
Selected Validation Data



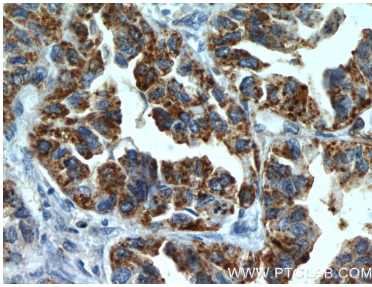
Lysates of A549 cells treated or non-treated with IFN-alpha were subjected to SDS PAGE followed by western blot with 13750-1-AP (MX1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



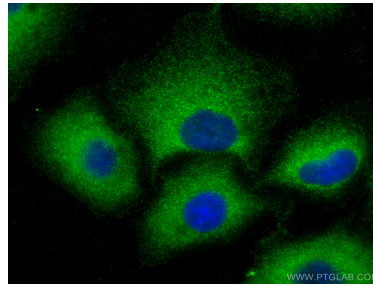
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13750-1-AP (MX1 antibody) at dilution of 1:200 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



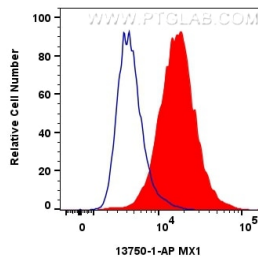
IP result of anti-MX1 (13750-1-AP for IP and Detection) with A549 cell.



Immunohistochemical analysis of paraffin-embedded human lung cancer slide using 13750-1-AP (MX1 Antibody) at dilution of 1:50.



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using MX1 antibody (13750-1-AP) at dilution of 1:200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 A549 cells were intracellularly stained with 0.4 ug MX1 Polyclonal antibody (13750-1-AP) and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).