

For Research Use Only

# MX1 Polyclonal antibody

Catalog Number: 13750-1-AP

Featured Product

100 Publications



## Basic Information

### Catalog Number:

13750-1-AP

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4692

### GenBank Accession Number:

BC032602

### GeneID (NCBI):

4599

### UNIPROT ID:

P20591

### Full Name:

Myxovirus resistance protein 1

### Calculated MW:

662 aa, 76 kDa

### Observed MW:

76 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### 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**

### Positive Controls:

WB: IFN alpha treated A549 cells, mouse lung tissue

IP: IFN alpha treated A549 cells,

IHC: human tonsillitis tissue, human colon cancer tissue, human lung cancer tissue

IF/ICC: A549 cells,

FC (Intra): A549 cells,

## 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  $\alpha$  /  $\beta$  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, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

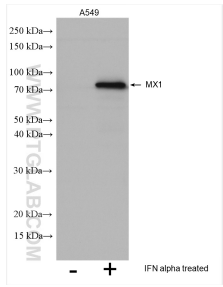
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

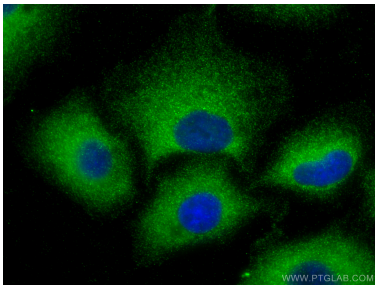
W: [ptgcn.com](http://ptgcn.com)

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

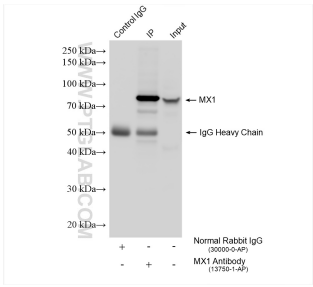
Selected Validation Data



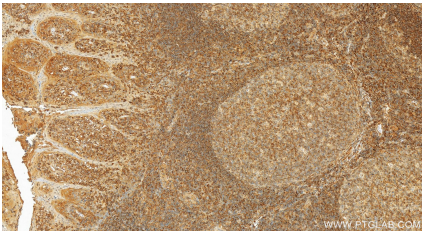
Lysates of A549 cells treated or non-treated with IFN-alpha were subjected to SDS PAGE followed by western blot with 13750-1-AP (MX1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



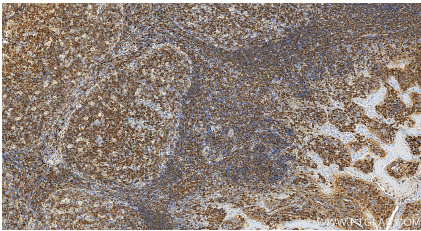
Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using MX1 antibody (13750-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



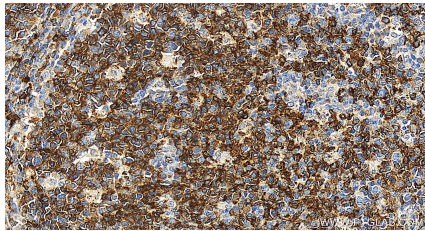
IP result of anti-MX1 (IP:13750-1-AP, 4ug; Detection:13750-1-AP 1:3000) with IFN alpha treated A549 cells lysate 1120 ug.



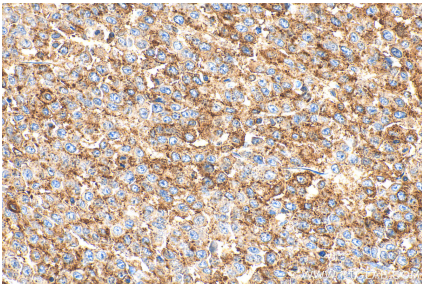
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13750-1-AP (MX1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



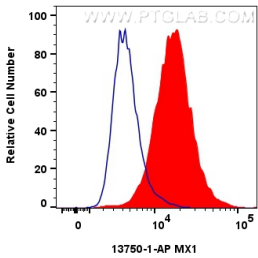
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13750-1-AP (MX1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13750-1-AP (MX1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13750-1-AP (MX1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> 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 isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.