

# MX1 Recombinant antibody

Catalog Number: 82677-1-RR

## Basic Information

<b>Catalog Number:</b> 82677-1-RR	<b>GenBank Accession Number:</b> BC032602	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 4599	<b>CloneNo.:</b> 2L19
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20591	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> Myxovirus resistance protein 1	
<b>Immunogen Catalog Number:</b> AG4692	<b>Calculated MW:</b> 662 aa, 76 kDa <b>Observed MW:</b> 75 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human

**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, IFN alpha treated HepG2 cells

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

**IF/ICC:** A549 cells,

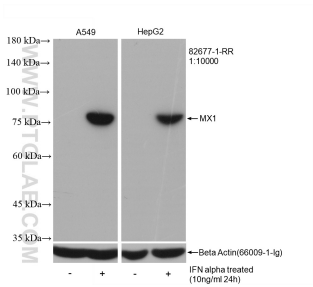
## Background Information

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.

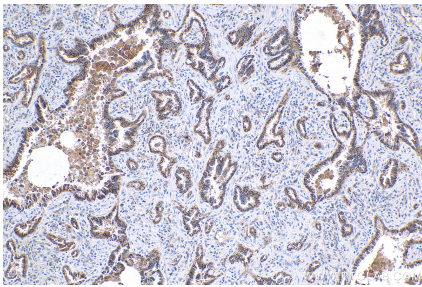
## Storage

**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

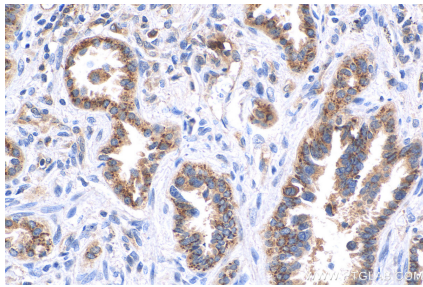
Selected Validation Data



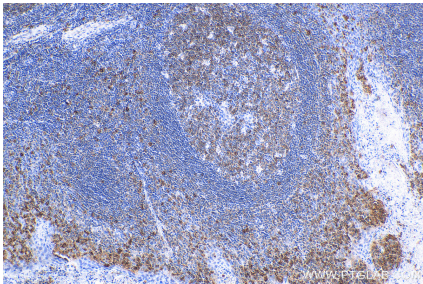
Untreated and IFN alpha treated A549 cells, untreated and IFN alpha treated HepG2 cells were subjected to SDS PAGE followed by western blot with 82677-1-RR (MX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



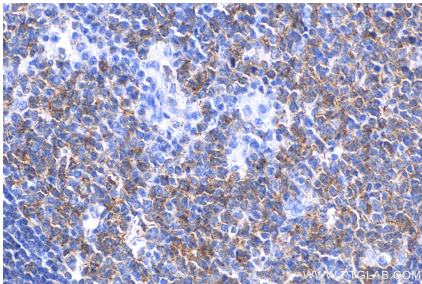
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82677-1-RR (MX1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



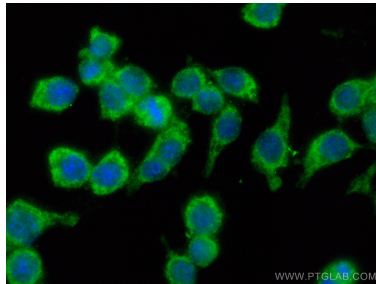
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82677-1-RR (MX1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



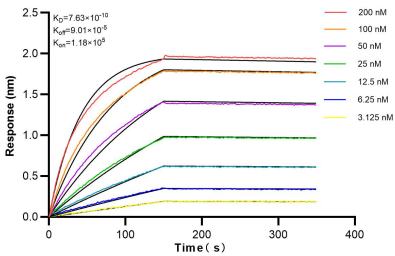
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82677-1-RR (MX1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82677-1-RR (MX1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using MX1 antibody (82677-1-RR, Clone: 2L19 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 82677-1-RR against Human MX1 were performed. The affinity constant is 0.763 nM.