

Active Recombinant Human MX1 protein, His-tagged

Cat. No. MX1-2467H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human MX1 protein(P20591)(80-342 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	80-342 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Interferon-induced GTP-binding protein Mx1 is a protein that in humans is encoded by the MX1 gene. 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. Besides, Tubulin Beta (TUBb) has been identified as an interactor of MX1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human MX1 and recombinant human TUBb. Briefly, MX1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100μ were then transferred to TUBb-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-MX1 pAb, then aspirated and washed 3 times. After

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incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of MX1 and TUBb was shown, and this effect was in a dose dependent manner.

Molecular Mass 30.3kDa

Endotoxin <1.0EU per 1µg (determined by the LAL method).

Purity > 95%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name MX1 myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse) [Homo sapiens]

Official Symbol MX1

Synonyms MX1; myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse); myxovirus (influenza) resistance 1, homolog of murine (interferon inducible protein p78); interferon-induced GTP-binding protein Mx1; IFI 78K; MxA; myxoma resistance protein 1; interferon-regulated resistance GTP-binding protein MxA; MX; IFI78; IFI-78K;

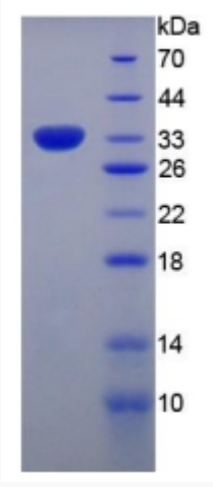
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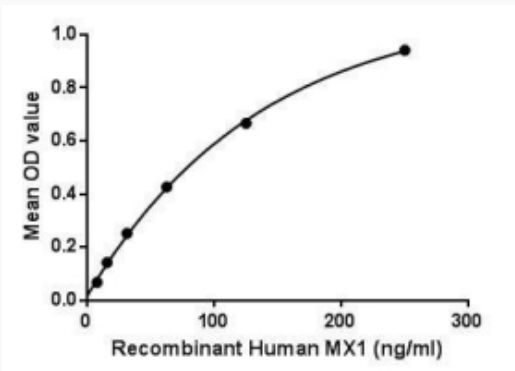
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Gene ID	4599
mRNA Refseq	NM_001144925
Protein Refseq	NP_001138397
MIM	147150
UniProt ID	P20591

SDS-PAGE



Activity



Recombinant Human MX1 (ng/ml)	Mean OD value
0	0.0
25	0.1
50	0.25
75	0.4
125	0.65
250	0.95

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