

Store at  
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#37849**MX1 (D3W7I) Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IHC-Bond, IHC-P	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 76	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P20591	<b>Entrez-Gene Id:</b> 4599
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
IHC Leica Bond  
Immunohistochemistry (Paraffin)

**Dilution**

1:1000  
1:50  
1:200  
1:160

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

For a carrier free (BSA and azide free) version of this product see product #62815.

**Specificity/Sensitivity**

MX1 (D3W7I) Rabbit mAb recognizes endogenous levels of total MX1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu292 of human MX1 protein.

**Background**

MX1 (Myxovirus resistance protein 1/MxA) is an interferon-inducible antiviral protein that confers resistance to RNA viruses (1-4). MX1 has GTPase activity, and GTP-bound MX1 adopts a conformation that enables interaction with viral nucleocapsids (5-7). This interaction blocks transport of viral nucleocapsids to the nucleus, which prevents transcription of the viral genome (7,8). Structural studies suggest that the antiviral activity of MX1 involves the formation of MX1 oligomeric rings around viral nucleocapsids (9-12).

**Background References**

- Horisberger, M.A. and Hochkeppel, H.K. (1985) *J Biol Chem* 260, 1730-3.
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- Staehele, P. et al. (1986) *Cell* 44, 147-58.
- Nakayama, M. et al. (1991) *J Biol Chem* 266, 21404-8.
- Kochs, G. and Haller, O. (1999) *J Biol Chem* 274, 4370-6.
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- Gao, S. et al. (2010) *Nature* 465, 502-6.
- Haller, O. et al. (2010) *J Biol Chem* 285, 28419-24.
- Gao, S. et al. (2011) *Immunity* 35, 514-25.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

**Cross-Reactivity Key**

**H:** Human

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