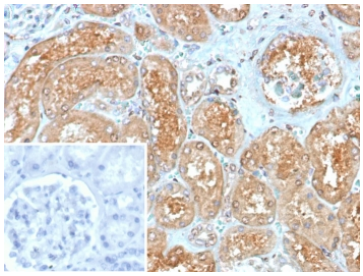
Myxovirus resistance protein 1 Antibody / MX1 / MxA [clone MX1/7530] (V4845)

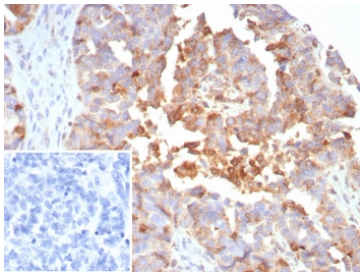
Catalog No.	Formulation	Size
V4845-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4845-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4845SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

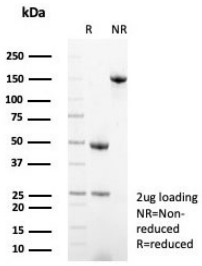
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	MX1/7530
Purity	Protein A/G affinity
UniProt	P20591
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Myxovirus resistance protein 1 antibody is available for research use only.



Myxovirus Resistance Protein 1 Antibody Human Kidney IHC. Immunohistochemical staining of FFPE human kidney tissue using Myxovirus Resistance Protein 1 Antibody / MX1 Antibody (clone MX1/7530) demonstrates strong granular cytoplasmic HRP-DAB brown staining throughout renal tubular epithelial cells, while glomerular structures show comparatively limited staining. MX1 is an interferon-inducible dynamin-like GTPase that functions as a key mediator of innate antiviral immunity and host defense. As a downstream effector of interferon signaling pathways, MX1 contributes to cellular antiviral responses by restricting viral replication and supporting interferon-regulated immune mechanisms. The observed tubular staining pattern is consistent with expression of MX1 in epithelial cell populations involved in innate immune surveillance and antiviral response pathways. Inset: PBS was used in place of the primary antibody as a negative control. HIER: boil tissue sections in pH 9, 10 mM Tris with 1 mM EDTA for 20 minutes and allow to cool before testing.



Myxovirus Resistance Protein 1 Antibody Ovarian Cancer IHC. Immunohistochemical staining of FFPE human ovarian cancer tissue using Myxovirus Resistance Protein 1 Antibody / MX1 Antibody (clone MX1/7530) demonstrates moderate to strong granular cytoplasmic HRP-DAB brown staining within malignant epithelial tumor cells. MX1 is an interferon-inducible dynamin-like GTPase that functions as a key mediator of innate antiviral immunity and interferon-regulated host defense pathways. As a downstream effector of interferon signaling, MX1 contributes to cellular antiviral responses and is widely utilized as a marker of interferon pathway activation. The observed staining pattern is consistent with expression of MX1 within neoplastic epithelial cells and supports the utility of this antibody for immunohistochemical detection of interferon-responsive proteins in human tissues. Inset: PBS was used in place of the primary antibody as a negative control. HIER: boil tissue sections in pH 9, 10 mM Tris with 1 mM EDTA for 20 minutes and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Myxovirus resistance protein 1 antibody (clone MX1/7530) as confirmation of integrity and purity.

Description

Myxovirus Resistance Protein 1 antibody is useful for studying Myxovirus Resistance Protein 1 (MX1), an interferon-induced dynamin-like GTPase that functions as an important component of the innate antiviral immune response. Clone MX1/7530 recognizes MX1, also known as MxA, a protein rapidly induced following activation of type I and type III interferon signaling pathways. Through its ability to restrict viral replication and dissemination, MX1 serves as a key mediator of host defense and antiviral immunity.

Myxovirus Resistance Protein 1 belongs to the highly conserved Mx family of large GTP-binding proteins that function as intracellular antiviral effectors. Members of this protein family are activated in response to interferon stimulation and interfere with critical stages of viral life cycles, helping establish an antiviral cellular state. Because MX1 expression closely reflects activation of interferon-responsive pathways, it is widely utilized as a marker of innate immune activation and antiviral signaling.

Analysis of Myxovirus Resistance Protein 1 expression can provide insight into host-pathogen interactions, interferon-regulated signaling networks, antiviral defense mechanisms, and regulation of interferon-stimulated genes. Expression of MX1 has been reported in numerous cell types and tissues following viral challenge, immune activation, and cytokine stimulation. As a result, MX1 has become an important target in studies of immunology, infectious disease biology, virology, and innate immune regulation.

Beyond its role in antiviral defense, MX1 participates in broader investigations of cytokine signaling and immune response pathways. Interferon-regulated proteins function at central points within host defense networks and contribute to coordination of cellular responses to infection and environmental stress. Research involving MX1 therefore supports a greater understanding of mechanisms that govern pathogen resistance and immune system activation.

Because interferon signaling pathways are highly conserved among vertebrates, MX1 remains a valuable research target across a wide range of experimental systems. Studies of MX1 contribute to investigations of viral pathogenesis, immune activation, cytokine biology, and cellular defense responses. The availability of validated reagents such as clone MX1/7530 supports detection of MX1 expression in multiple research applications and tissue types.

Myxovirus Resistance Protein 1 antibodies are commonly used in immunohistochemistry, western blotting, immunofluorescence, flow cytometry, and related protein detection applications. These reagents support investigations of antiviral defense, interferon signaling, innate immunity, host-pathogen interactions, cytokine responses, infectious disease biology, and immune system regulation.

Learn more about MX1 function in interferon signaling, antiviral defense mechanisms, innate immunity, and host-pathogen interactions on our MX1 Antibody page.

Application Notes

Optimal dilution of the Myxovirus resistance protein 1 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 400-592) from the human protein was used as the immunogen for the Myxovirus resistance protein 1 antibody.

Storage

Aliquot the Myxovirus resistance protein 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

MX1 Antibody, MXA Antibody, MxA Protein Antibody, Interferon-Induced GTPase Antibody, Antiviral Response Protein Antibody, Myxovirus Resistance Protein A Antibody

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