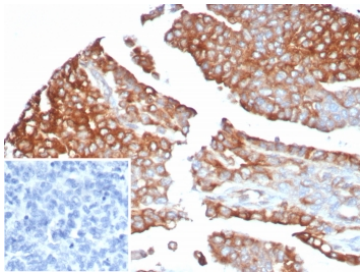
MX1 Antibody / Myxovirus resistance protein 1 / MxA [clone MX1/7527] (V4843)

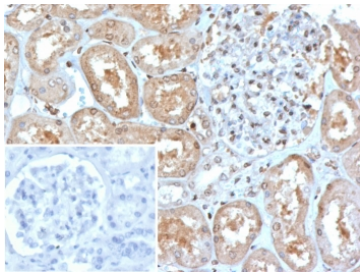
Catalog No.	Formulation	Size
V4843-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4843-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4843SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

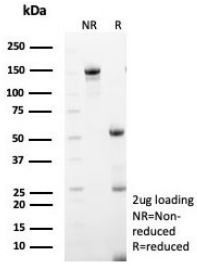
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	MX1/7527
Purity	Protein A/G affinity
UniProt	P20591
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This MX1 antibody is available for research use only.



MX1 Antibody Ovarian Cancer IHC. Immunohistochemical staining of FFPE human ovarian cancer tissue using MX1 Antibody / Antiviral Response Protein Antibody (clone MX1/7527) demonstrates strong cytoplasmic and membranous HRP-DAB brown staining throughout malignant epithelial tumor cells. MX1 (Myxovirus Resistance Protein 1) 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 restriction of viral replication and serves as a widely utilized marker of interferon-responsive cellular activity. 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 antiviral response proteins and interferon-regulated pathways 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.



MX1 Antibody Human Kidney IHC. Immunohistochemical staining of FFPE human kidney tissue using MX1 Antibody / Antiviral Response Protein Antibody (clone MX1/7527) demonstrates moderate to strong granular cytoplasmic HRP-DAB brown staining throughout renal tubular epithelial cells, with comparatively limited staining within glomerular structures. MX1 (Myxovirus Resistance Protein 1) 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 antiviral cellular responses and serves as a widely utilized marker of interferon-regulated activity. The observed tubular staining pattern is consistent with expression of MX1 in epithelial cell populations 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 MX1 antibody (clone MX1/7527) as confirmation of integrity and purity.

Description

The Dynamin family of microtubule-associated proteins function as GTPases that are involved in microtubule bundling and endocytosis. In mice, Mx2 (myxovirus resistance protein 2) and Mx1 (myxovirus resistance protein 1) are members of the Dynamin family that are involved in the immune response to viral infections. Localized to the cytoplasm, Mx2 contains one GED domain and is expressed in response to viral infection or treatment by IFN-a/IFN-b. Once expression is induced, Mx2 accumulates in the cytoplasm and inhibits the replication of vesicular stomatitis virus (VSV), thereby conferring resistance to VSV infection. Unlike Mx2, Mx1 is localized to the nucleus where, upon induction by IFN-a/IFN-b, it provides selective resistance to infection by the highly lethal H5N1 influenza virus. In humans, MxA and MxB function in a similar manner to Mx1 and Mx2, conferring resistance to specific target viruses. Mx3 is a rat-specific member of the myxovirus resistance protein family.

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 MX1 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 MX1 antibody.

Storage

Aliquot the MX1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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