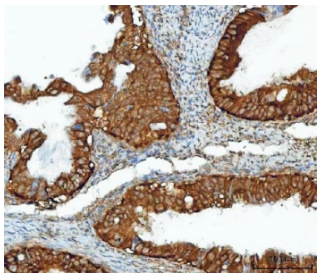
Inosine-5'-monophosphate dehydrogenase 2 Antibody / IMPDH2 (RQ7329)

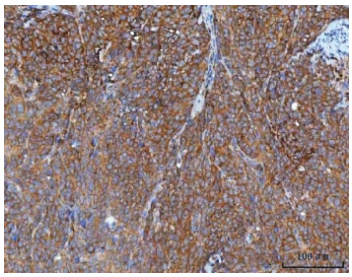
Catalog No.	Formulation	Size
RQ7329	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

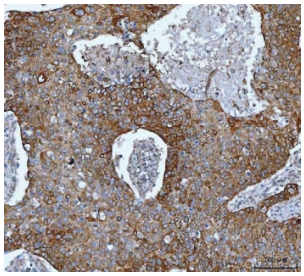
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P12268
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml
Limitations	This Inosine-5'-monophosphate dehydrogenase 2 antibody is available for research use only.



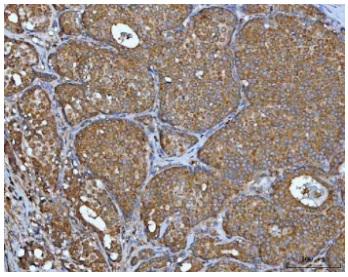
IHC staining of FFPE human ovarian cancer tissue with Inosine-5'-monophosphate dehydrogenase 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



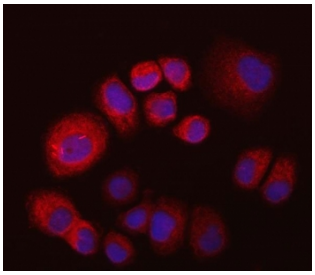
IHC staining of FFPE human cervical cancer tissue with Inosine-5'-monophosphate dehydrogenase 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



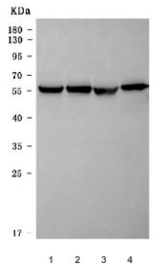
IHC staining of FFPE human esophageal squamous carcinoma tissue with Inosine-5'-monophosphate dehydrogenase 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



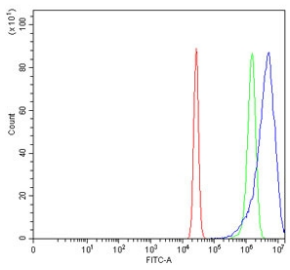
IHC staining of FFPE human breast cancer tissue with Inosine-5'-monophosphate dehydrogenase 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



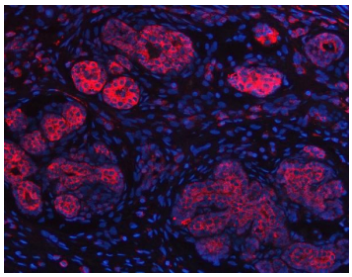
Immunofluorescent staining of FFPE human T-47D cells with Inosine-5'-monophosphate dehydrogenase 2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



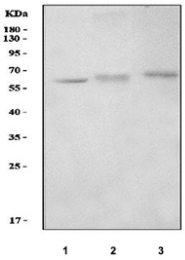
Western blot testing of human 1) K562, 2) Daudi, 3) U-251 and 4) U937 cell lysate with Inosine-5'-monophosphate dehydrogenase 2 antibody. Predicted molecular weight: ~56 kDa.



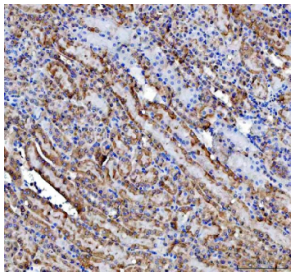
Flow cytometry testing of fixed and permeabilized human U-2 OS cells with Inosine-5'-monophosphate dehydrogenase 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Inosine-5'-monophosphate dehydrogenase 2 antibody.



Immunofluorescent staining of FFPE human breast cancer tissue with Inosine-5'-monophosphate dehydrogenase 2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



Western blot testing of 1) rat pancreas, 2) mouse lung and 3) mouse pancreas tissue lysate with Inosine-5'-monophosphate dehydrogenase 2 antibody. Predicted molecular weight: ~56 kDa.



IHC staining of FFPE mouse kidney tissue with Inosine-5'-monophosphate dehydrogenase 2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Inosine-5'-monophosphate dehydrogenase 2 (IMPDH2) is a key enzyme in the de novo synthesis of guanine nucleotides. It catalyzes the conversion of inosine monophosphate (IMP) to xanthosine monophosphate (XMP), a rate-limiting step in guanine nucleotide biosynthesis. Researchers often use an Inosine-5'-monophosphate dehydrogenase 2 antibody to study nucleotide metabolism and its regulation in cells.

IMPDH2 is ubiquitously expressed but is especially important in proliferating cells that require high levels of guanine nucleotides for DNA and RNA synthesis. Altered expression of this enzyme has been linked to cancer progression, viral replication, and immune cell activation. Employing an Inosine-5'-monophosphate dehydrogenase 2 antibody provides insights into cell growth, nucleotide metabolism, and disease-associated pathways.

NSJ Bioreagents offers a high-quality Inosine-5'-monophosphate dehydrogenase 2 antibody validated for use in western blot, immunohistochemistry, and immunoprecipitation. Using an Inosine-5'-monophosphate dehydrogenase 2 antibody ensures sensitive detection and reproducibility in studies of nucleotide biosynthesis, oncology, and virology research.

Application Notes

Optimal dilution of the Inosine-5'-monophosphate dehydrogenase 2 antibody should be determined by the researcher.

Immunogen

Amino acids VVLSPKDRVRDVFEAKARH were used as the immunogen for the Inosine-5'-monophosphate dehydrogenase 2 antibody.

Storage

After reconstitution, the Inosine-5'-monophosphate dehydrogenase 2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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