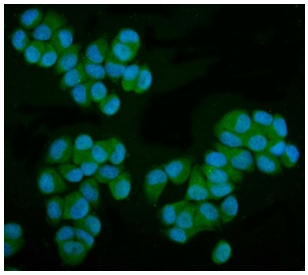
Mannose Phosphate Isomerase Antibody / MPI [clone 5G5] (RQ6274)

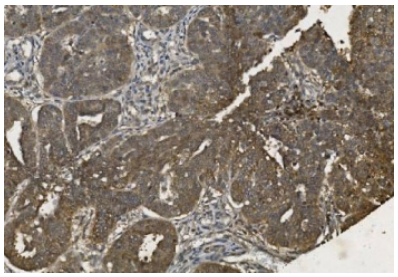
Catalog No.	Formulation	Size
RQ6274	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

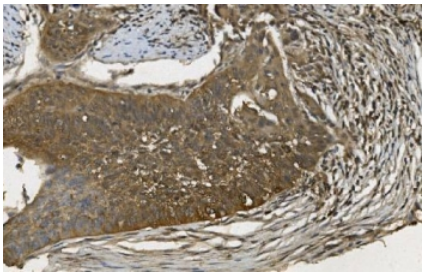
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	5G5
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P34949
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Mannose Phosphate Isomerase antibody is available for research use only.



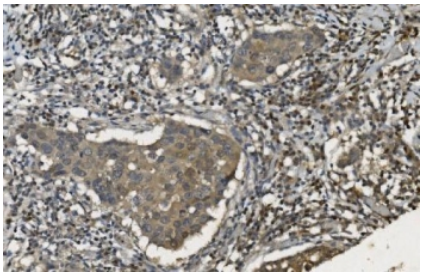
Immunofluorescent staining of FFPE human T-47D cells with Mannose Phosphate Isomerase antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



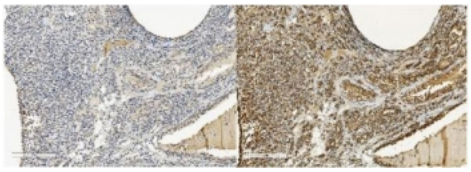
IHC staining of FFPE human ovarian serous adenocarcinoma with Mannose Phosphate Isomerase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



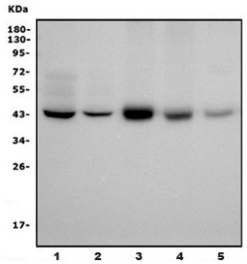
IHC staining of FFPE human lung cancer with Mannose Phosphate Isomerase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



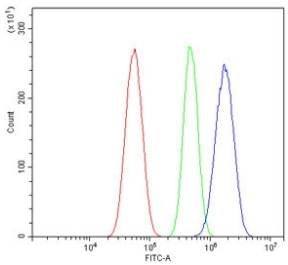
IHC staining of FFPE human breast cancer with Mannose Phosphate Isomerase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human renal clear cell carcinoma with (right) and without (left) Mannose Phosphate Isomerase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) Caco-2, 3) HEK293, 4) U-87 MG and 5) rat brain lysate with Mannose Phosphate Isomerase antibody. Predicted molecular weight ~47 kDa.



Flow cytometry testing of human U-87 MG cells with Mannose Phosphate Isomerase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Mannose Phosphate Isomerase antibody.

Description

Mannose-6 phosphate isomerase (MPI), alternately phosphomannose isomerase (PMI), is an enzyme which facilitates the interconversion of fructose 6-phosphate(F6P) and mannose-6-phosphate(M6P). It also plays a critical role in

maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions. Mutations in the MPI gene were found in patients with carbohydrate-deficient glycoprotein syndrome, type Ib. Alternative splicing results in multiple transcript variants. This MPI gene is mapped to 15q24.1.

Application Notes

Optimal dilution of the Mannose Phosphate Isomerase antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids A2-K99) was used as the immunogen for the Mannose Phosphate Isomerase antibody.

Storage

After reconstitution, the Mannose Phosphate Isomerase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.