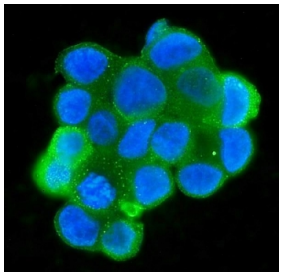
MPI Antibody / Mannose-6 phosphate isomerase [clone 11I4] (RQ5624)

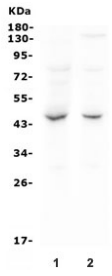
Catalog No.	Formulation	Size
RQ5624	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	11I4
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P34949
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml
Limitations	This MPI antibody is available for research use only.



Immunofluorescent staining of FFPE human MCF7 cells with MPI antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) Caco-2 and 2) HeLa lysate with MPI antibody. Predicted molecular weight ~47 kDa.

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 MPI antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids A2-K99) was used as the immunogen for the MPI antibody.

Storage

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