

For Research Use Only

# MPI Monoclonal antibody

Catalog Number: 68417-1-Ig



## Basic Information

<b>Catalog Number:</b> 68417-1-Ig	<b>GenBank Accession Number:</b> BC046357	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4351	<b>CloneNo.:</b> 3B10A6
<b>Source:</b> Mouse	<b>Full Name:</b> mannose phosphate isomerase	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB IF 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 47 kDa	
<b>Immunogen Catalog Number:</b> AG5475	<b>Observed MW:</b> 40-47 kDa	

## Applications

### Tested Applications:

IF, IP, WB, ELISA

### Species Specificity:

Human, Rat, Pig, Mouse

### Positive Controls:

WB : MCF-7 cells, rat brain tissue, A549 cells, LnCaP cells, Jurkat cells, K-562 cells, pig brain tissue

IP : Jurkat cells,

IF : NIH/3T3 cells,

## Background Information

MPI (mannose-6-phosphate isomerase) is also named as PMI 1 and belongs to the mannose-6-phosphate isomerase type 1 family. It is a zinc metalloenzyme that catalyzes the reversible isomerization of mannose-6-phosphate and fructose-6-phosphate. MPI plays a critical role in maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions. This protein has 2 isoforms produced by alternative splicing.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

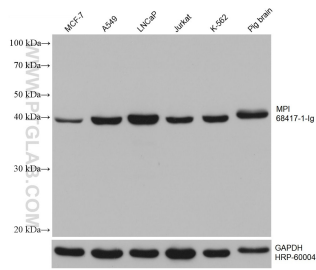
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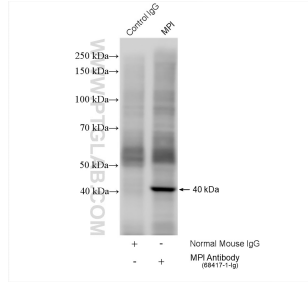
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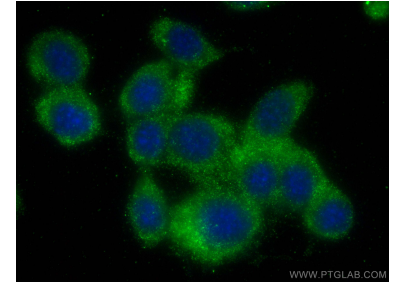
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68417-1-Ig (MPI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



IP result of anti-MPI (IP: 68417-1-Ig, 4ug; Detection: 68417-1-Ig 1:2000) with Jurkat cells lysate 2280 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using MPI antibody (68417-1-Ig, Clone: 3B10A6) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).