

## Product datasheet for **CF504749**

### Mannose Phosphate Isomerase (MPI) Mouse Monoclonal Antibody [Clone ID: OTI1C7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C7
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MPI(NP_002426) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	46.5 kDa
Gene Name:	mannose phosphate isomerase
Database Link:	<a href="#">NP_002426</a> <a href="#">Entrez Gene 300741 Rat</a> <a href="#">Entrez Gene 4351 Human</a> <a href="#">P34949</a>



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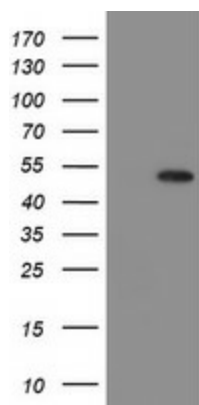
**Background:** Phosphomannose isomerase catalyzes the interconversion of fructose-6-phosphate and mannose-6-phosphate and plays a critical role in maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions. Mutations in the MPI gene were found in patients with carbohydrate-deficient glycoprotein syndrome, type Ib. [provided by RefSeq]

**Synonyms:** CDG1B; PMI; PMI1

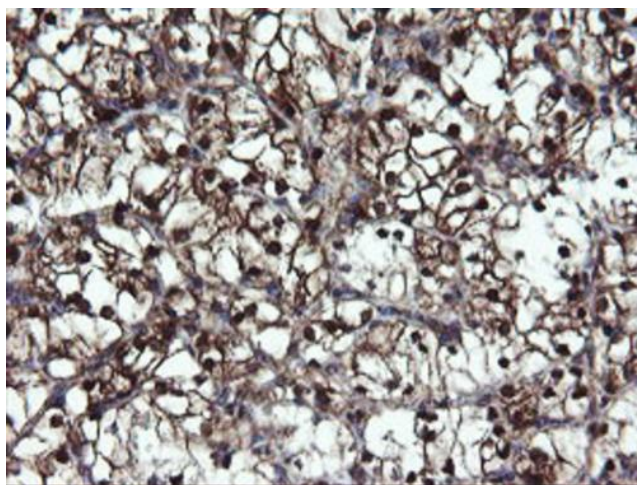
**Protein Families:** ES Cell Differentiation/IPS

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

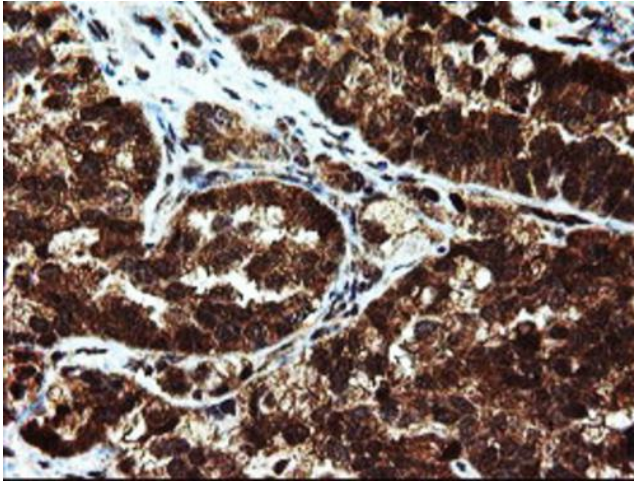
**Product images:**



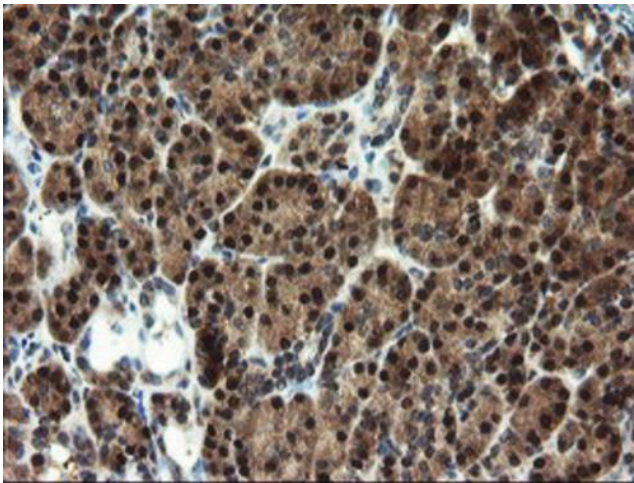
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MPI (Cat# [RC208134], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MPI(Cat# [TA504749]). Positive lysates [LY419324] (100ug) and [LC419324] (20ug) can be purchased separately from OriGene.



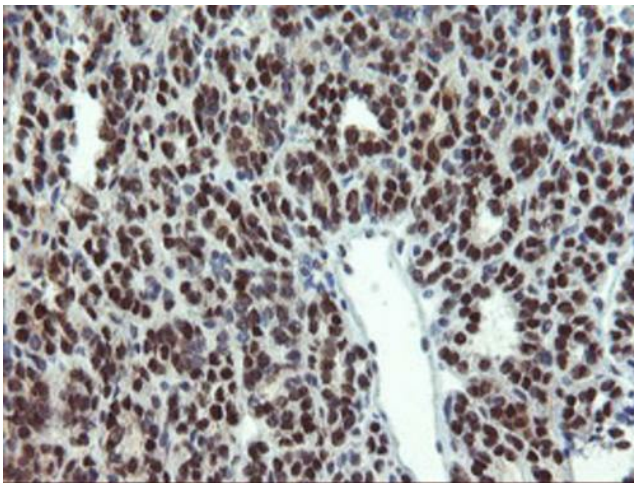
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-MPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504749])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-MPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504749])

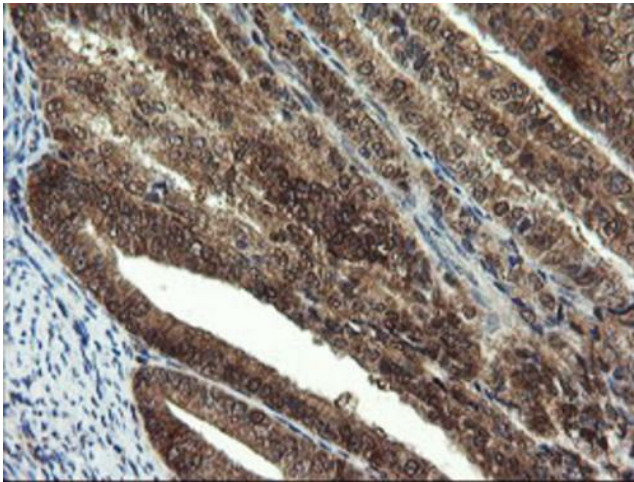


Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-MPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504749])

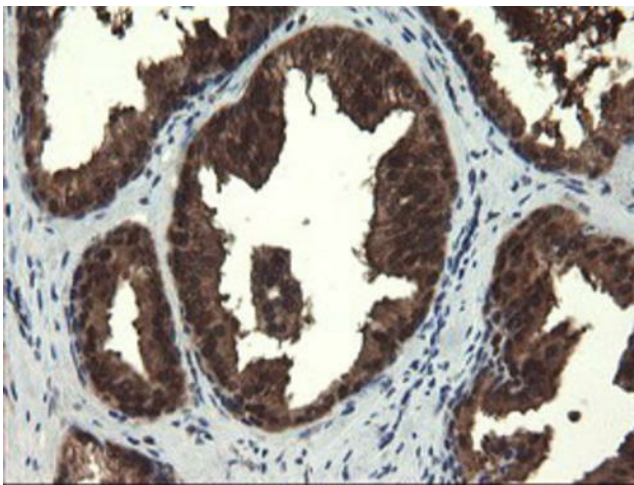


Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-MPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504749])

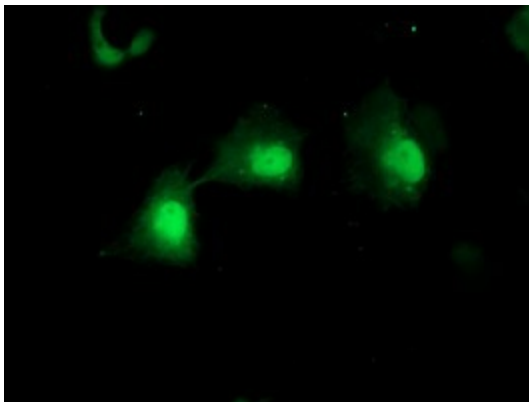




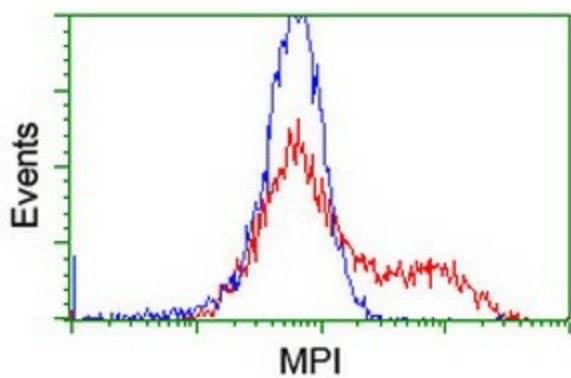
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-MPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504749])



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-MPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504749])



Anti-MPI mouse monoclonal antibody ([TA504749]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MPI ([RC208134]).



HEK293T cells transfected with either [RC208134] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MPI antibody ([TA504749]), and then analyzed by flow cytometry.