

Mannose Phosphate Isomerase Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52673**Specification**

Mannose Phosphate Isomerase Antibody - Product Information

Application	WB, ICC
Primary Accession	P34949
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	54 KDa

Mannose Phosphate Isomerase Antibody - Additional Information**Gene ID** 4351**Other Names**

PMI1;CDG1B;FLJ39201;Mannose 6 phosphate isomerase;Mannose-6-phosphate isomerase;MANNOSEPHOSPHATE ISOMERASE;MGC94106;MPI;MPI_HUMAN;Phosphohexomutase;phosphomannose isomerase 1;Phosphomannose isomerase;PMI;PMI1.

Dilution

WB~~1:1000

ICC~~1:300

Format

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50%,glycerol

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Mannose Phosphate Isomerase Antibody - Protein Information**Name** MPI ([HGNC:7216](#))**Synonyms** PMI1**Function**

Isomerase that catalyzes the interconversion of fructose-6-P and mannose-6-P and has a critical role in the supply of D-mannose derivatives required for many eukaryotic glycosylation reactions.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q924M7}.

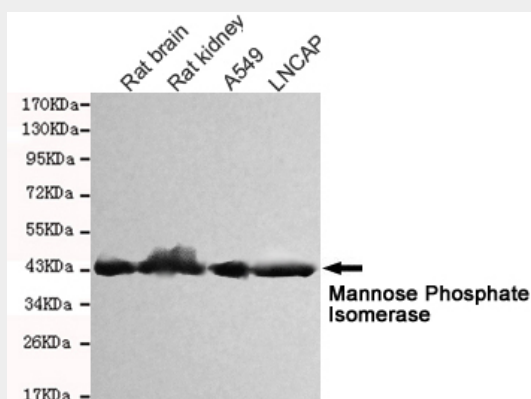
Tissue Location

Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.

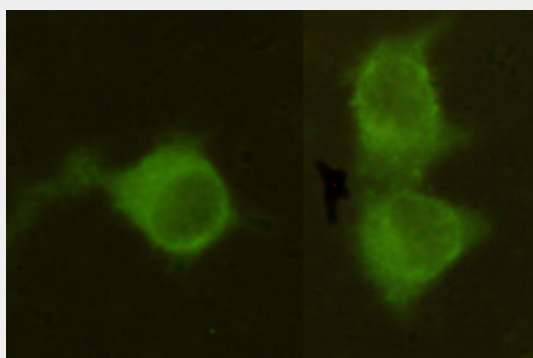
Mannose Phosphate Isomerase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mannose Phosphate Isomerase Antibody - Images

Western blot detection of Mannose Phosphate Isomerase in Rat kidney, Rat brain, A549 and Lncap cell lysates and using Mannose Phosphate Isomerase mouse mAb (1:1000 diluted). Predicted band size: 54KDa. Observed band size: 45KDa.



Immunocytochemistry stain of HeLa using Mannose Phosphate Isomerase mouse mAb (1:300).

Mannose Phosphate Isomerase Antibody - Background

Involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions.

Mannose Phosphate Isomerase Antibody - References

Proudfoot A.E.I., et al. Eur. J. Biochem. 219:415-423(1994).
Schollen E., et al. Hum. Mutat. 16:247-252(2000).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Gauci S., et al. Anal. Chem. 81:4493-4501(2009).