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Mannose Phosphate Isomerase Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52673

Product Information

Application	WB, ICC
Primary Accession	P34949
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	46656

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	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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.

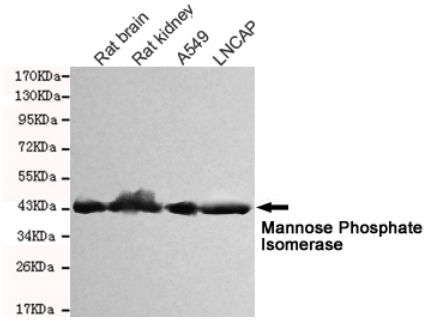
Background

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

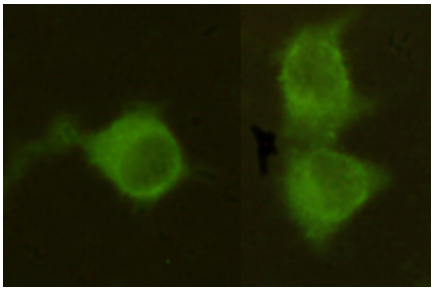
References

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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).

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.