

Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8)

Mouse Monoclonal Antibody
Catalog # ABV12060

Product Information

Application	WB, IF
Primary Accession	P34949
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	4G9-B4-B8
Calculated MW	46656

Additional Information

Gene ID	4351
Application & Usage Other Names	WB: Rat kidney, Rat brain, A549 and Lncap cell lysates; IF: HeLa cells Mannose-6-phosphate isomerase, Phosphohexomutase, Phosphomannose isomerase, PMI
Target/Specificity	Mannose Phosphate Isomerase
Antibody Form	Liquid
Appearance	Colorless liquid
Formulation	In buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol
Handling	The antibody solution should be gently mixed before use.
Reconstitution & Storage	-20 °C
Background Descriptions Precautions	Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

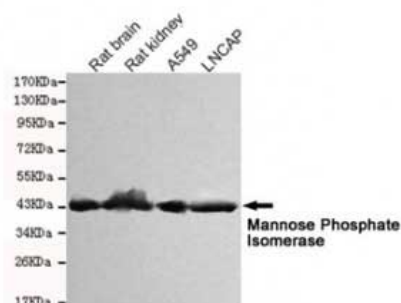
Name	MPI (HGNC:7216)
Synonyms	PMI1

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.

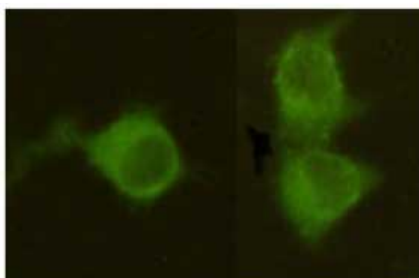
Background

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.

Images



Western blot detection of Mannose Phosphate Isomerase in Rat brain, Rat kidney, A549 and LNCAP cell lysates using Mannose Phosphate Isomerase mouse mAb



Immunocytochemistry stain of HeLa using Mannose Phosphate Isomerase mouse mAb

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