

Mannose Phosphate Isomerase Mouse mAb

CatalogNo: YM1237

Key Features

Host Species

- Mouse

Reactivity

- Human,Rat

Applications

- WB,ICC

MW

- 54kD (Observed)

Recommended Dilution Ratios

WB 1:1000

ICC 1:300

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Monoclonal

Immunogen Information

Immunogen Purified recombinant human Mannose Phosphate Isomerase protein fragments expressed in E.coli.

Specificity This antibody detects endogenous levels of Mannose Phosphate Isomerase and does not cross-react with related proteins.

Target Information

Gene name mpi

Protein Name

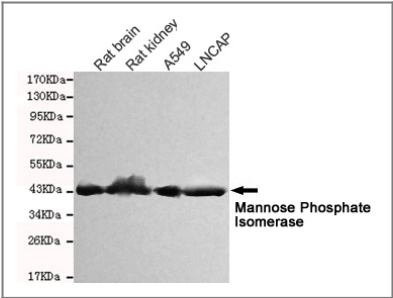
Organism	Gene ID	UniProt ID
Human	4351 ;	P34949 ;
Mouse		Q924M7 ;

Cellular Localization Cytoplasm .

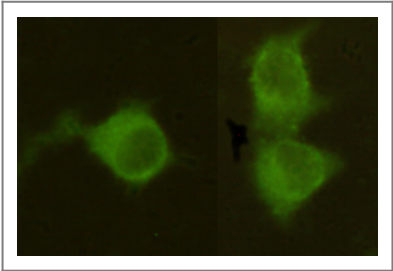
Tissue specificity Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.

Function Catalytic activity:D-mannose 6-phosphate = D-fructose 6-phosphate.,cofactor:Binds 1 zinc ion per subunit.,Disease:Defects in MPI are the cause of congenital disorder of glycosylation type 1B (CDG1B) [MIM:602579]; also known as carbohydrate-deficient glycoprotein syndrome type 1b (CDGS1B). Congenital disorders of glycosylation are metabolic deficiencies in glycoprotein biosynthesis that usually cause severe mental and psychomotor retardation. They are characterized by under-glycosylated serum glycoproteins. CDG1B is clinically characterized by protein-losing enteropathy.,Function:Involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions.,pathway:Nucleotide-sugar biosynthesis; GDP-D-mannose biosynthesis; alpha-D-mannose 1-phosphate from D-fructose 6-phosphate: step 1/2.,similarity:Belongs to the mannose-6-phosphate isomerase type 1 family.,tissue specificity:Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.,

Validation Data



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).

Contact information

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mAb**

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