

MPI/Mannose Phosphate Isomerase Rabbit pAb

Catalog # AP97551

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P34949
Other Accession	P34949
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46656
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MPI/Mannose Phosphate Isomerase
Epitope Specificity	61-160/423
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the mannose-6-phosphate isomerase type 1 family.
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 Ib (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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Additional Information

Gene ID	4351
Other Names	CDG1B; PMI; PMI1; 1110002E17Rik; Mpi-1; Mpi1; MPI_BOVIN; MPI; Phosphohexamutase; Phosphomannose isomerase (PMI); 5.3.1.8; MPI_HUMAN; MPI_MOUSE; MPI_RAT; mannose phosphate isomerase; mannose-6-phosphate isomerase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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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.

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