SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-MPI/Mannose Phosphate Isomerase antibody

SL18654R

Product Name:	MPI/Mannose Phosphate Isomerase
Chinese Name:	磷酸甘露糖异构酶抗体
Alias:	PMI1; CDG1B; FLJ39201; Mannose 6 phosphate isomerase; Mannose-6-phosphate isomerase; MANNOSEPHOSPHATE ISOMERASE; MGC94106; MPI; MPI_HUMAN; Phosphohexomutase; phosphomannose isomerase 1; Phosphomannose isomerase; PMI.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	46kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MPI/Mannose Phosphate Isomerase:61-160/423
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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]

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

Subcellular Location:
Cytoplasm.

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

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.

Similarity:
Belongs to the mannose-6-phosphate isomerase type 1 family.

SWISS:
P34949

Gene ID:
4351

Database links:

Entrez Gene: 4351 Human

Entrez Gene: 513586 Cow

Entrez Gene: 110119 Mouse

Entrez Gene: 300741 Rat

Omim: 154550 Human

SwissProt: Q3SZI0 Cow

	SwissProt: P34949 Human SwissProt: Q924M7 Mouse SwissProt: Q68FX1 Rat Unigene: 75694 Human Unigene: 247218 Mouse Unigene: 44246 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.