

MPI Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17091a**Specification**

MPI Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P34949
Other Accession	O924M7 , Q3SZI0 , NP_002426.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46656
Antigen Region	37-65

MPI Antibody (N-term) - Additional Information**Gene ID** 4351**Other Names**

Mannose-6-phosphate isomerase, Phosphohexomutase, Phosphomannose isomerase, PMI, MPI, PMI1

Target/Specificity

This MPI antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-65 amino acids from the N-terminal region of human MPI.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MPI Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MPI Antibody (N-term) - 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

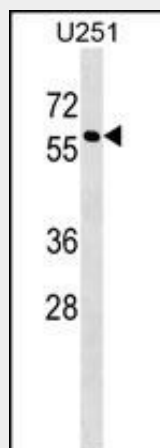
Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.

MPI Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MPI Antibody (N-term) - Images



MPI Antibody (N-term) (Cat. #AP17091a) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the MPI antibody detected the MPI protein (arrow).

MPI Antibody (N-term) - 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.

MPI Antibody (N-term) - References

Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Xiao, J., et al. J. Mol. Graph. Model. 25(3):289-295(2006)
Vuillaumier-Barrot, S., et al. J. Med. Genet. 39(11):849-851(2002)
Schollen, E., et al. Eur. J. Hum. Genet. 10(10):643-648(2002)