10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	Q924M7, 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

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}.

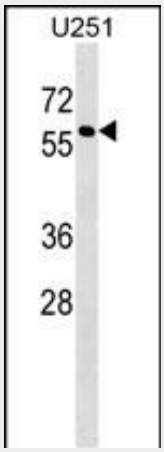
Tissue Location
Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.

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 Cytomety
- 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)