

**Anti-MPI Picoband Antibody**  
**Catalog # ABO10033****Specification**

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**Anti-MPI Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P34949</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Mannose-6-phosphate isomerase(MPI) detection. Tested with WB in Human;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-MPI Picoband Antibody - Additional Information**

**Gene ID** 4351

**Other Names**

Mannose-6-phosphate isomerase, 5.3.1.8, Phosphohexomutase, Phosphomannose isomerase, PMI, MPI, PMI1

**Calculated MW**

46656 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**

Cytoplasm .

**Tissue Specificity**

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

**Protein Name**

Mannose-6-phosphate isomerase

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived human MPI recombinant protein (Position: A2-K99). Human MPI shares 88.8% and 86.7% amino acid (aa) sequence identity with mouse and rat MPI, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

Storage

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-MPI Picoband Antibody - 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}.

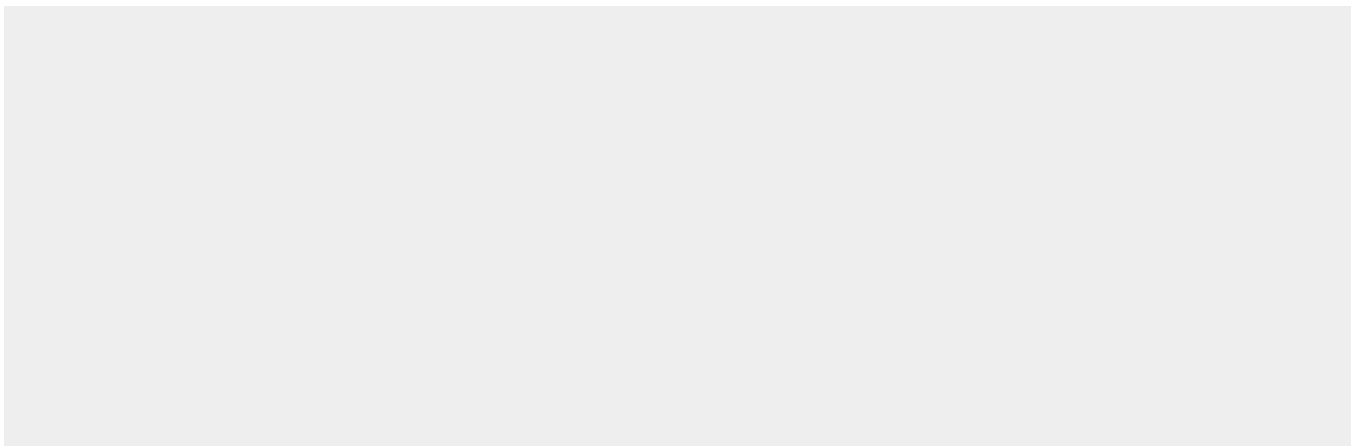
**Tissue Location**

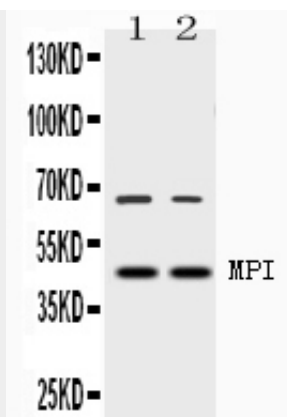
Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.

**Anti-MPI Picoband Antibody - 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](#)

**Anti-MPI Picoband Antibody - Images**



Western blot analysis of MPI expression in rat testis extract (lane 1) and HELA whole cell lysates (lane 2). MPI at 46KD was detected using rabbit anti- MPI Antigen Affinity purified polyclonal antibody (Catalog # ABO10033) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .

#### Anti-MPI Picoband Antibody - Background

Mannose-6 phosphate isomerase (MPI), alternately phosphomannose isomerase (PMI), is an enzyme which facilitates the interconversion of fructose 6-phosphate(F6P) and mannose-6-phosphate(M6P). It also 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. This MPI gene is mapped to 15q24.1.