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Anti-MPI Picoband Antibody
Catalog # ABO10033

Specification

Anti-MPI Picoband Antibody - Product Information

Application	**WB, IHC, IHC-P, IHC-F, ICC, FC**
Primary Accession	P34949
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

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 Na2HPO4, 0.05mg NaN3.

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 r˚Constitution, 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 Cytomety
- Cell Culture

Anti-MPI Picoband Antibody - Images

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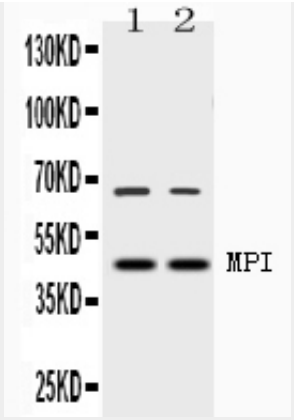

Western blot analysis of MPI expression in rat testis extract (lane 1) and HELA whole cell lysates (lane 2). MPI at 46KD was detected using rabbit anti- MPI Antigen Affinity purified polyclonal antibody (Catalog # ABO10033) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .

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.