10320 Camino Santa Fe, Suite G
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Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8)

Mouse Monoclonal Antibody
Catalog # ABV12060

Specification

Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) - Product Information

Application	**WB, ICC**
Primary Accession	P34949
Reactivity	**Human, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**

Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) - Additional Information

Gene ID 4351

Application & Usage	**WB: Rat kidney, Rat brain, A549 and Lncap cell lysates; IF: HeLa cells**

Other Names
Mannose-6-phosphate isomerase, Phosphohexomutase, Phosphomannose isomerase, PMI

Target/Specificity
Mannose Phosphate Isomerase

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
In buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) - Protein Information

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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}.

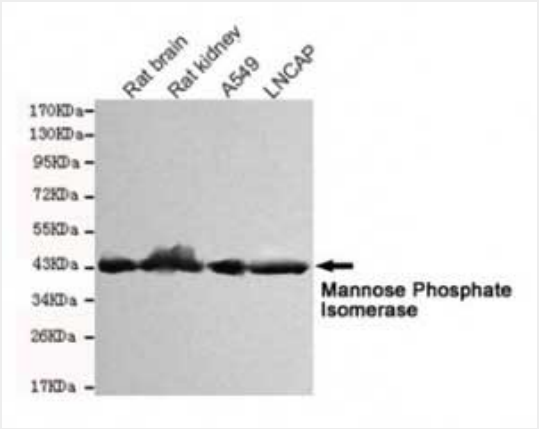
Tissue Location
Expressed in all tissues, but more abundant in heart, brain and skeletal muscle.

Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) - 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-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) - Images



Western blot detection of Mannose Phosphate Isomerase in Rat brain, Rat kidney, A549 and LNCAP cell tysates using Mannose Phosphate Isomerase mouse mAb

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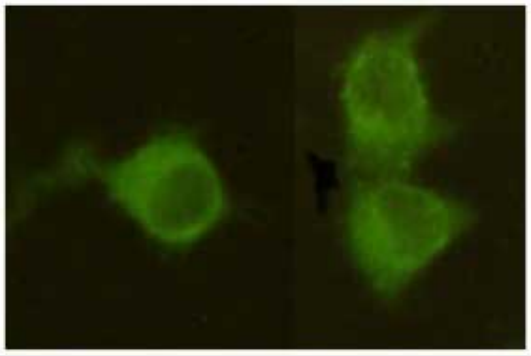

Immunocytochemistry stain of HeLa using Mannose Phosphate Isomerase mouse mAb

Anti-Mannose Phosphate Isomerase Antibody (4G9-B4-B8) - 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.