

Human Mannose Phosphate Isomerase (MPI) ELISA Kit | MPI elisa kit

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CATALOG #
AAA138895

REACTIVITY
Human

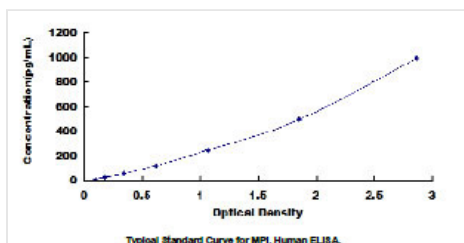
PRODUCT SYNONYMS

Mannose Phosphate Isomerase (MPI); Human Mannose Phosphate Isomerase (MPI) ELISA Kit; PMI1; Mannose-6-Phosphate Isomerase; Phosphohexomutase; Phosphomannose isomerase; MPI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Mannose Phosphate Isomerase (MPI). No significant cross-reactivity or interference between Mannose Phosphate Isomerase (MPI) and analogues was observed.
Sequence Length	362
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	15.6-1000pg/mL
Sensitivity	6.7pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Mannose Phosphate Isomerase (MPI) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Mannose Phosphate Isomerase (MPI) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MPI elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mannose Phosphate Isomerase (MPI). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mannose Phosphate Isomerase (MPI). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mannose Phosphate Isomerase (MPI), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Mannose Phosphate Isomerase (MPI) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for MPI elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	7159280
NCBI GeneID	4351
UniProt Accession #	P34949; Q96AB0; A8K8K9
Molecular Weight	39,834 Da
NCBI Official Full Name	mannose phosphate isomerase
NCBI Official Synonym Full Names	mannose phosphate isomerase
NCBI Official Symbol	MPI
NCBI Official Synonym Symbols	PMI; PMI1; CDG1B
NCBI Protein Information	mannose-6-phosphate isomerase
UniProt Protein Name	Mannose-6-phosphate isomerase
UniProt Gene Name	MPI
UniProt Synonym Gene Names	PMI1; PMI
UniProt Entry Name	MPI_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/mannose-phosphate-isomerase-mpi/138895>