

Human Mannose Phosphate Isomerase ELISA Kit | MPI elisa kit

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CATALOG #
AAA84456

REACTIVITY
Human

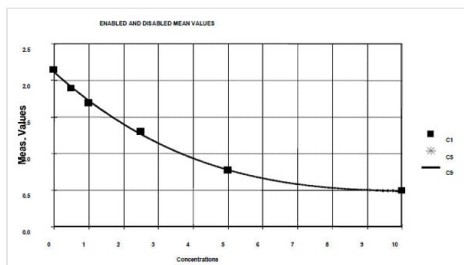
PRODUCT SYNONYMS

Mannose Phosphate Isomerase; Human Mannose Phosphate Isomerase ELISA Kit; MPI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	5.0-100ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MPI elisa kit	For Samples: Cell culture fluid & body fluid & tissue homogenate Serum or blood plasma Intended Uses: This MKP-1 ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of MKP-1 in the sample, this MKP-1 ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus MKP-1 concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve. Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of MKP-1 utilizes a multiclonal anti-MKP-1 antibody and an MKP-1-HRP conjugate. The assay sample and buffer are incubated together with MKP-1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MKP-1 concentration since MKP-1 from samples and MKP-1-HRP conjugate compete for the anti-MKP-1 antibody binding site. Since the number of sites is limited, as more sites are occupied by MKP-1 from the sample, fewer sites are left to bind MKP-1-HRP conjugate. Standards of known MKP-1 concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of MKP-1. The MKP-1 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7159280
NCBI GeneID	4351
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; phosphohexomutase; phosphomannose isomerase 1
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mpi-human-elisa-kits/mannose-phosphate-isomerase/84456>