

Human Cation-Dependent Mannose-6-Phosphate Receptor (M6PR) ELISA Kit | CD-MPR elisa kit

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CATALOG # AAA331906	REACTIVITY Human
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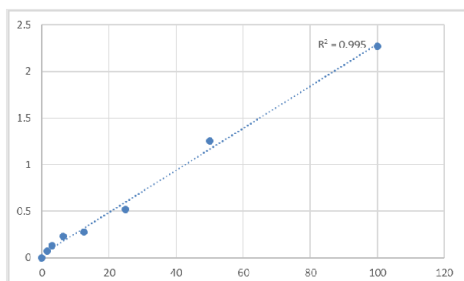
PRODUCT SYNONYMS

Cation-Dependent Mannose-6-Phosphate Receptor (M6PR); Human Cation-Dependent Mannose-6-Phosphate Receptor (M6PR) ELISA Kit; M6PR; FLJ32994; MPR46; SMPR; 46-kDa mannose 6-phosphate receptor; Mr 46; 000 Man6PR; cation-dependent mannose-6-phosphate receptor; CD-MPR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Cation-dependent mannose-6-phosphate receptor (M6PR) ELISA Kit has high sensitivity and excellent specificity for detection of Human M6PR. No significant cross-reactivity or interference between Human M6PR and analogues was observed.
Sequence Length	277
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Cation-dependent mannose-6-phosphate receptor (M6PR) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for CD-MPR elisa kit	Description: This Human Cation-dependent mannose-6-phosphate receptor (M6PR) ELISA Kit employs a two-site sandwich ELISA to quantitate M6PR in samples. An antibody specific for M6PR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any M6PR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for M6PR is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of M6PR bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: M6PR is a receptor for mannose-6-phosphate groups on lysosomal enzymes. The receptor forms a homodimer or homotetramer for intracellular targeting of lysosomal enzymes and export of newly synthesized lysosomal enzymes into the cell secretions. The receptor is an integral membrane protein which localizes to the trans-Golgi reticulum, endosomes, and the plasma membrane. Two distinct mannose 6-phosphate receptors have been identified: one is cation-independent and has an apparent molecular weight of 215,000. The second, the cation-dependent mannose 6-phosphate receptor, or small mannose 6-phosphate receptor, has an apparent molecular weight of only 46,000 and requires divalent cations for high-affinity binding with its ligand.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505061
NCBI GeneID	4074
NCBI Accession #	NP_002346
NCBI GenBank Nucleotide #	NP_002346.1
UniProt Accession #	P20645
NCBI Official Full Name	cation-dependent mannose-6-phosphate receptor isoform 1
NCBI Official Synonym Full Names	mannose-6-phosphate receptor, cation dependent
NCBI Official Symbol	M6PR
NCBI Official Synonym Symbols	SMPR; MPR46; CD-MPR; MPR 46; MPR-46; CD-M6PR
NCBI Protein Information	cation-dependent mannose-6-phosphate receptor
UniProt Protein Name	Cation-dependent mannose-6-phosphate receptor
UniProt Gene Name	M6PR
UniProt Synonym Gene Names	MPR46; MPRD; CD Man-6-P receptor; CD-MPR; MPR 46

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.