Human Cation-dependent mannose-6-phosphate receptor (M6PR) ELISA Kit

Catalog No: #EK9993

Package Size: #EK9993-1 48T #EK9993-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Cation-dependent mannose-6-phosphate receptor (M6PR) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CD-MPR; FLJ32994; MPR46; SMPR; 46-kDa mannose 6-phosphate receptor|Mr 46;000 Man6PR|cation-dependent mannose-6-phosphate receptor
Accession No.	P20645
Uniprot	P20645
GeneID	4074;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.63 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyM6PR 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.Product Overview: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.

Note: This product is for in vitro research use only