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Recombinant Anti-M6PR Rabbit mAb

Catalog # AP95290

Product Information

Application	WB, FC, IF/IC
Primary Accession	P20645
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	30993

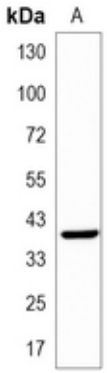
Additional Information

Gene ID	4074
Other Names	MPR46; MPRD; Cation-dependent mannose-6-phosphate receptor; CD Man-6-P receptor; CD-MPR; 46 kDa mannose 6-phosphate receptor; MPR 46
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human M6PR protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

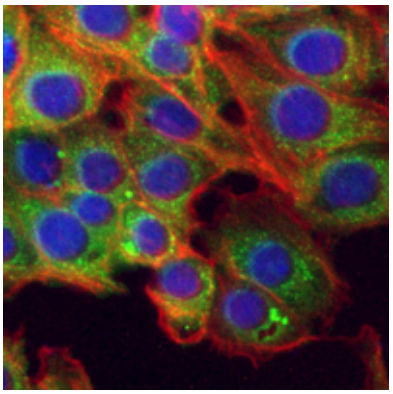
Protein Information

Name	M6PR
Synonyms	MPR46, MPRD
Function	Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelyosomal compartment where the low pH mediates the dissociation of the complex.
Cellular Location	Lysosome membrane; Single-pass type I membrane protein

Images



Western blot analysis of M6PR expression in A549 (A) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 42 kD)



Immunofluorescent analysis of M6PR staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).