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M6PR Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2792b

Product Information

Application	WB, IF, FC, E
Primary Accession	P20645
Other Accession	P24668, P11456, NP_002346.1
Reactivity	Human
Predicted	Mouse, Bovine, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15078
Calculated MW	30993
Antigen Region	230-260

Additional Information

Gene ID	4074
Other Names	Cation-dependent mannose-6-phosphate receptor, CD Man-6-P receptor, CD-MPR, 46 kDa mannose 6-phosphate receptor, MPR 46, M6PR, MPR46, MPRD
Target/Specificity	This M6PR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 230-260 amino acids from the C-terminal region of human M6PR.
Dilution	WB~~1:1000 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	M6PR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

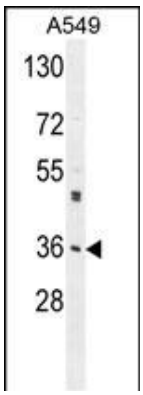
Background

The protein encoded by this gene 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.

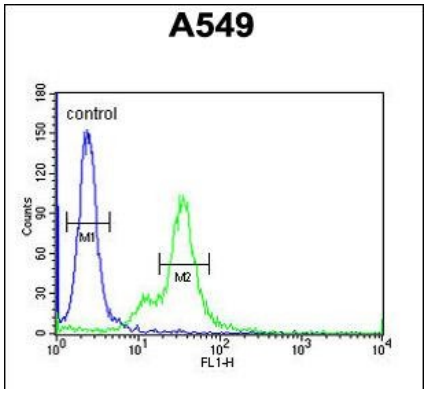
References

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Rodriguez-Gabin, A.G., et al. Exp. Cell Res. 315(13):2215-2230(2009)
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Images

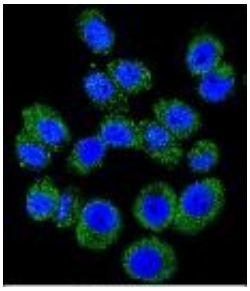


M6PR Antibody (C-term) (Cat. #AP2792b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the M6PR antibody detected the M6PR protein (arrow).



M6PR Antibody (C-term) (Cat. #AP2792b) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Confocal immunofluorescent analysis of M6PR Antibody (C-term)(AP2792b) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was



used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.