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M6PR/IGF2R Antibody

Rabbit mAb
Catalog # AP90519

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P11717
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	IGF2R; CI Man-6-P receptor; CI-MPR; M6PR; MPR 300; Insulin-like growth factor 2 receptor; M6P/IGF2R; CD222;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	274375

Additional Information

Dilution	WB 1:5000~1:20000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:30 FC 1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human M6PR/IGF2R
Description	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. This receptor also binds IGF2. Acts as a positive regulator of T-cell coactivation, by binding DPP4.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

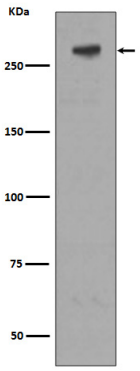
Name	IGF2R
Synonyms	MPRI
Function	Mediates the transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes (PubMed:18817523, PubMed:2963003). Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex (PubMed:18817523, PubMed:2963003). The receptor is then recycled back to the Golgi for another round of trafficking through its binding to the retromer (PubMed:18817523). This receptor also binds IGF2

(PubMed:18046459). Acts as a positive regulator of T-cell coactivation by binding DPP4 (PubMed:10900005).

Cellular Location

Golgi apparatus membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Note=Mainly localized in the Golgi at steady state and not detectable in lysosome (PubMed:18817523) Colocalized with DPP4 in internalized cytoplasmic vesicles adjacent to the cell surface (PubMed:10900005).

Images



Western blot analysis of extracts of M6PR expression in Jurkat cell lysate.

Image not found : 202311/AP90519-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human colon, using M6PR Antibody.