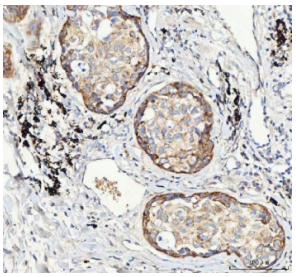
M6PR Antibody / IGF2R (RQ4264)

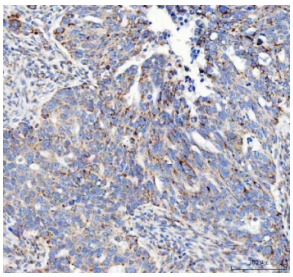
Catalog No.	Formulation	Size
RQ4264	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

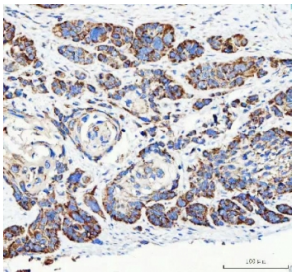
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P11717
Localization	Cytoplasm (lysosome membrane)
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This M6PR antibody is available for research use only.



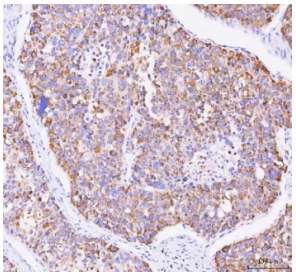
IHC testing of FFPE human lung cancer tissue with M6PR antibody. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



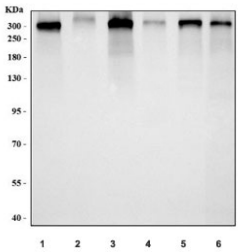
IHC testing of FFPE human ovarian cancer tissue with M6PR antibody. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



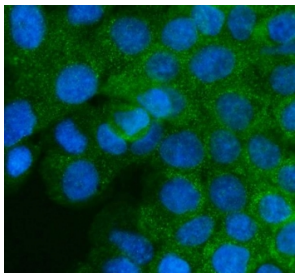
IHC testing of FFPE human esophageal squamous carcinoma tissue with M6PR antibody. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



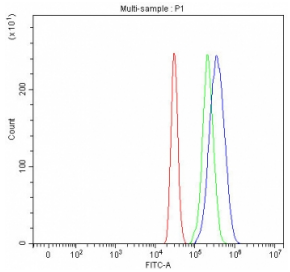
IHC testing of FFPE human liver cancer tissue with M6PR antibody. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



Western blot testing of 1) human HeLa, 2) human U-87 MG, 3) human HepG2, 4) rat heart, 5) rat PC-12 and 6) mouse NIH 3T3 cell lysate with M6PR antibody. Expected molecular weight: 274-300 kDa.



Immunofluorescent staining of FFPE human A431 cells with M6PR antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of fixed and permeabilized human HepG2 cells with M6PR antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= M6PR antibody.

Description

Insulin-like growth factor 2 receptor, also called IGF2R, I-MPR and M6PR (mannose 6-phosphate receptor) is a protein that in humans is encoded by the IGF2R gene. This gene is mapped to 6q25.3. This gene encodes a receptor for both insulin-like growth factor 2 and mannose 6-phosphate, although the binding sites for either are located on different segments of the receptor. This receptor functions in the intracellular trafficking of lysosomal enzymes, the activation of transforming growth factor beta, and the degradation of insulin-like growth factor 2. While the related mouse gene shows exclusive expression from the maternal allele, imprinting of the human gene appears to be polymorphic, with only a minority of individuals showing expression from the maternal allele.

Application Notes

Optimal dilution of the M6PR antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids F424-R529 was used as the immunogen for the M6PR antibody.

Storage

After reconstitution, the M6PR antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.