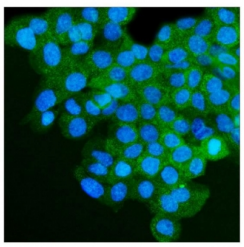
IGF2R Antibody / M6PR [clone 4I11] (RQ6532)

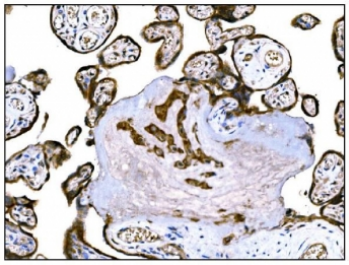
Catalog No.	Formulation	Size
RQ6532	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

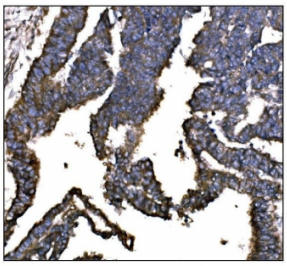
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	4I11
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P11717
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This IGF2R antibody is available for research use only.



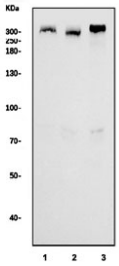
Immunofluorescent staining of FFPE human A431 cells with IGF2R antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



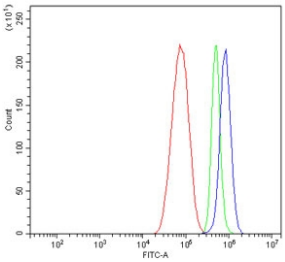
IHC staining of FFPE human placental tissue with IGF2R antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon cancer tissue with IGF2R antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) U-87 MG and 3) HepG2 cell lysate with IGF2R antibody. Predicted molecular weight ~274 kDa.



Flow cytometry testing of human HepG2 cells with IGF2R antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= IGF2R antibody.

Description

Insulin-like growth factor 2 receptor, also called IGF2R or I-MPR 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 IGF2R antibody should be determined by the researcher.

Immunogen

An E. coli-derived human protein (amino acids F424-R529) was used as the immunogen for the IGF2R antibody.

Storage

After reconstitution, the IGF2R antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.