

For Research Use Only

# IGF2R-Specific Polyclonal antibody

Catalog Number: 20253-1-AP

Featured Product

21 Publications



## Basic Information

### Catalog Number:

20253-1-AP

### Size:

700 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_000876

### GeneID (NCBI):

3482

### UNIPROT ID:

P11717

### Full Name:

insulin-like growth factor 2 receptor

### Calculated MW:

274 kDa

### Observed MW:

300 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, bovine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HepG2 cells, A431 cells, L02 cells

IP : HepG2 cells,

IHC : mouse colon tissue, human liver tissue, human liver cancer tissue

IF/ICC : HepG2 cells,

## Background Information

IGF2R, also named as MPRI, CI Man-6-P receptor, CI-MPR, M6PR, IGF-II receptor, M6P/IGF2R, MPR 300 and CD222, belongs to the MRL1/IGF2R family. IGF2R transports of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. IGF2R is a 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. This receptor also binds IGF2. IGF2R acts as a positive regulator of T-cell coactivation, by binding DPP4. The antibody is specific to IGF2R.

## Notable Publications

Author	Pubmed ID	Journal	Application
Weichao Zhang	36096887	Nat Commun	WB
Ya Hui	36302455	Metabolism	WB,IF
Bing Liu	36299463	Front Endocrinol (Lausanne)	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

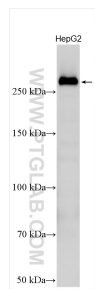
T: 4006900926

E: Proteintech-CN@ptglab.com

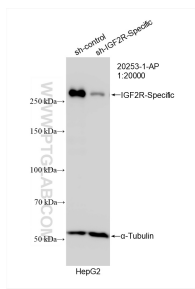
W: ptgcn.com

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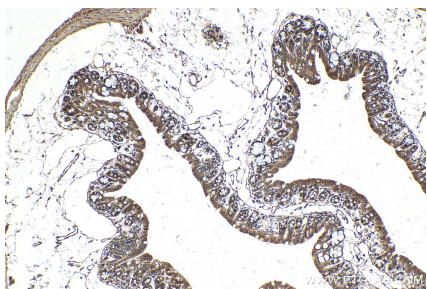
Selected Validation Data



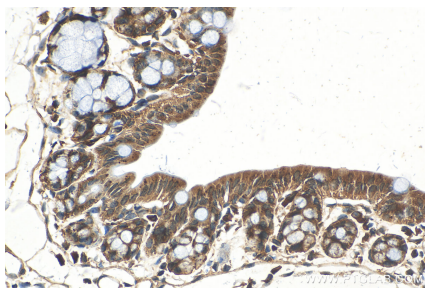
HepG2 cells lysates were subjected to SDS PAGE followed by western blot with 20253-1-AP (IGF2R-Specific antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



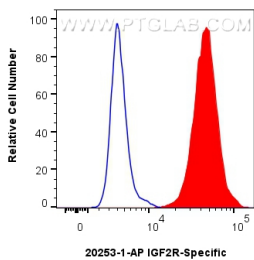
WB result of IGF2R-Specific antibody (20253-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IGF2R-Specific transfected HepG2 cells.



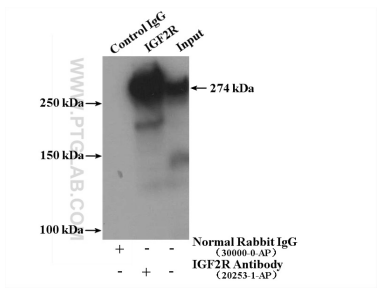
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 20253-1-AP (IGF2R-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



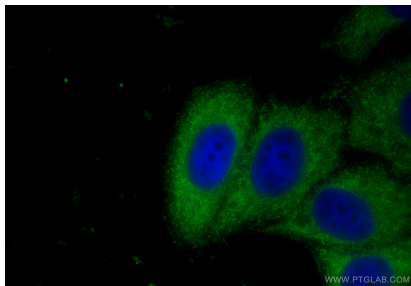
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 20253-1-AP (IGF2R-Specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug IGF2R-Specific Polyclonal antibody (20253-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-IGF2R-Specific (IP:20253-1-AP, 4ug; Detection:20253-1-AP 1:500) with HepG2 cells lysate 3480ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using IGF2R-Specific antibody (20253-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).