

For Research Use Only

# IGF1R Monoclonal antibody

Catalog Number: 66283-1-Ig **6 Publications**



## Basic Information

Catalog Number:

66283-1-Ig

Size:

1500 ug/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM\_000875

GeneID (NCBI):

3480

UNIPROT ID:

P08069

Full Name:

IGF I receptor

Calculated MW:

155 kDa

Observed MW:

130-140 kDa

Purification Method:

Protein A purification

CloneNo.:

3C6A11

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, rat

Cited Species:

human, mouse, rat

**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** : MCF-7 cells, HepG2 cells, HeLa cells, HUVEC cells, A549 cells, HEK-293 cells, ROS1728 cells, C6 cells

**IHC** : human breast cancer tissue, human endometrial cancer tissue, human lung cancer tissue

## Background Information

IGF1R, also named as CD221, is a receptor tyrosine kinase which mediates actions of INS-like growth factor 1 (IGF1). IGF1R binds IGF1 with high affinity and IGF2 and INS with a lower affinity, the activated IGF1R is involved in cell growth and survival control. It is crucial for tumor transformation and survival of malignant cells. IGF1R is a heterotetrameric receptor, composed of two alpha subunits (130 kDa each) and two beta subunits (~98 kDa each) (PMID: 6279656). Both the alpha and beta subunits are synthesized from a single mRNA precursor. The precursor is then glycosylated, proteolytically cleaved, and crosslinked by cysteine bonds.

## Notable Publications

Author	Pubmed ID	Journal	Application
YuanPing Hai	36128805	Thyroid	IHC
Takashi Hara	36130217	Biosci Biotechnol Biochem	WB
Shuai Lian	30423388	Behav Brain Res	WB

## 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:

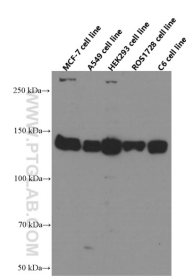
T: 4006900926

E: Proteintech-CN@ptglab.com

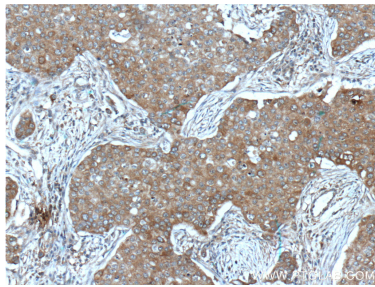
W: ptgcn.com

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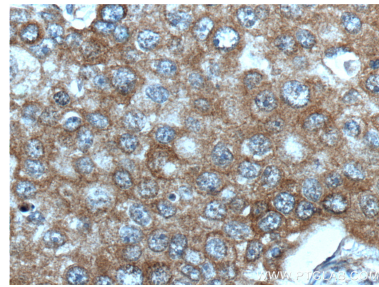
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66283-1-Ig (IGF1R beta chain antibody at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66283-1-Ig (IGF1R beta chain antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66283-1-Ig (IGF1R beta chain antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).