

IGF1R/CD221 Monoclonal antibody

Catalog Number: 66283-1-Ig **7 Publications**

Basic Information

Catalog Number:

66283-1-Ig

Concentration:

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 G 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 translated as ~220 kDa pro-receptors (PMID: 33969359). IGF1R is a heterotetrameric receptor, composed of two alpha subunits (~130 kDa) and two beta subunits (~100-120 kDa) (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, pH7.3

Aliquoting is unnecessary for -20°C storage

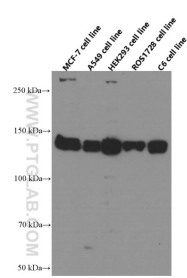
For technical support and original validation data for this product please contact:

T: 4006900926

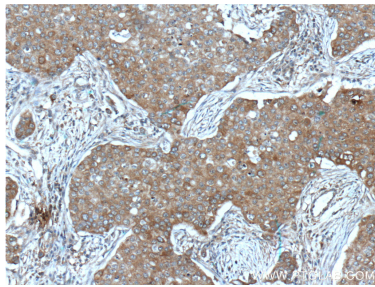
E: Proteintech-CN@ptglab.comW: ptgcn.com

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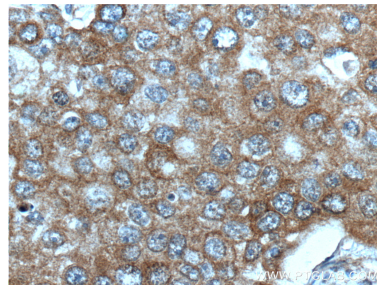
Selected Validation Data



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).