

For Research Use Only

IGF1R Monoclonal antibody

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



Basic Information

Catalog Number: 66283-1-Ig	GenBank Accession Number: NM_000875	Purification Method: Protein A purification
Size: 1500 µg/ml	GeneID (NCBI): 3480	CloneNo.: 3C6A11
Source: Mouse	UNIPROT ID: P08069	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500
Isotype: IgG1	Full Name: IGF I receptor	
	Calculated MW: 155 kDa	
	Observed MW: 130-140 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB: MCF-7 cells, HepG2 cells, HeLa cells, HUVEC cells, A549 cells, HEK-293 cells, ROS1728 cells, C6 cells
Species Specificity: human, rat	IHC: human breast cancer tissue, human endometrial cancer tissue, human lung cancer tissue
Cited Species: human, rat, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

IGF1R, also named CD221, belongs to the protein kinase superfamily, Tyr protein kinase family, and INS receptor subfamily. IGF1R binds INS-like growth factor 1 (IGF1) with a high affinity and IGF2 with a lower affinity. It has a tyrosine-protein kinase activity, which is necessary for the activation of the IGF1-stimulated downstream signaling cascade. When present in a hybrid receptor with INSR, IGF1R binds IGF1. The hybrid receptors composed of IGF1R and INSR isoform Long are activated with a high affinity by IGF1, with low affinity by IGF2, and not significantly activated by INS, and that hybrid receptor composed of IGF1R and INSR isoform Short are activated by IGF1, IGF2, and INS. In contrast, the hybrid receptors composed of IGF1R and INSR isoform Long and hybrid receptors composed of IGF1R and INSR isoform Short have similar binding characteristics, both bind IGF1 and have a low affinity for INS. Defects in IGF1R may be a cause in some cases of resistance to INS-like growth factor 1 (IGF1 resistance).

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

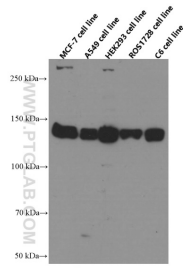
Storage

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

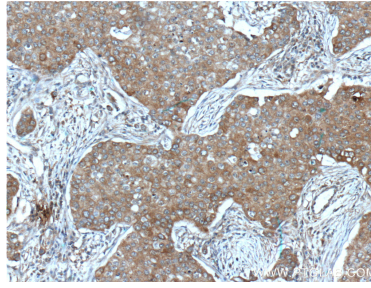
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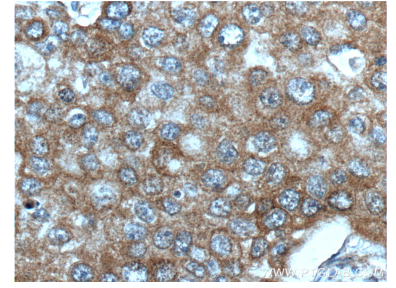
Selected Validation Data



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).