IGF1R beta chain
Monoclonal ANTIBODY
Catalog Number: 66283-1-Ig

Basic Information
- Catalog Number: 66283-1-Ig
- GenBank Accession Number: NM_000875
- GeneID (NCBI): 3480
- Full Name: insulin-like growth factor 1 receptor
- Source: Mouse
- Isotype: IgG1
- Purification Method: Protein G purification
- Calculated MW: 155 kDa
- Observed MW: 130-140 kDa

Applications
- Tested Applications: ELISA, WB, IHC
- Cited Applications: WB
- Species Specificity: human, rat
- Cited Species: human

Background Information
IGF1R, also named as CD221, belongs to the protein kinase superfamily, Tyr protein kinase family and insulin receptor subfamily. IGF1R binds insulin-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 insulin, and that hybrid receptors composed of IGF1R and INSR isoform Short are activated by IGF1, IGF2 and insulin. 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 insulin. Defects in IGF1R may be a cause in some cases of resistance to insulin-like growth factor 1 (IGF1 resistance). This antibody raised against a synthesized polypeptide (CGVLVLRASFDERQPYAH) corresponding to 1332-1348aa of human IGF1R protein recognizes beta chain of IGF1R.

Notable Publications
- Author: Yancun Yin
- Pubmed ID: 28389416
- Journal: Cell Signal
- Application: WB

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 1 (888) 4PTGLAB (1-888-478-4522) (toll-free in USA), or (312) 455-8498 (outside USA)
- E proteintech@ptglab.com
- W ptglab.com

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HepG2 cells were subjected to SDS PAGE followed by western blot with 66283-1-Ig (IGF1R beta chain antibody at dilution of 1:2000) incubated at room temperature for 1.5 hours.

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.
