bs-4985R **[Primary Antibody]**

IGF1R Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3480 **SWISS:** P08069

Target: IGF1R

Immunogen: KLH conjugated synthetic peptide derived from human IGF1R/CD221 beta chain: 821-920/1367. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This receptor 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, binds IGF1. PubMed:12138094 shows that 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, PubMed:16831875 shows that 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.

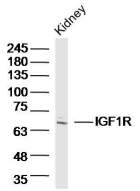
Applications: **WB** (1:500-2000)
Flow-Cyt (1μg/Test)

Reactivity: Human, Mouse (predicted: Rat, Pig, Sheep, Cow)

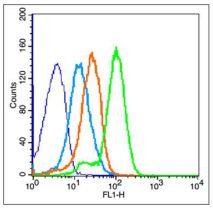
Predicted MW.: 69/150 kDa

Subcellular Location: Cell membrane

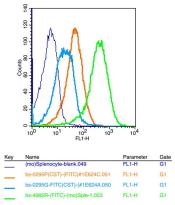
VALIDATION IMAGES



Sample:Kidney (Mouse) Lysate at 40 ug Primary: Anti- IGF1R (bs-4985R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 69/150 kD Observed band size: 69 kD



Blank control(blue): Mouse Spleen(fixed with 2% paraformaldehyde for 10 min at 37°C). Primary Antibody:Rabbit Anti-IGF1R antibody (bs-4985R,Green); Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.



Positive control: (mo)Splenocytes(2% Paraformaldehyde-fixed) Isotype Control Antibody: Rabbit IgG; Dilution: 1μg in 100 μl 1 X PBS containing 0.5% BSA Secondary Antibody: Goat anti-rabbit IgG-FITC; Dilution: 1:200 in 1 X PBS containing 0.5% BSA Primary Antibody: rabbit Anti-IGF1R bs-4985R; Dilution: 1μg in 100 μl 1X PBS containing 0.5% BSA

SELECTED CITATIONS

- **[IF=6.8]** Lihua Feng. et al. Maternal F-53B exposure during pregnancy and lactation affects bone growth and development in male offspring. ECOTOX ENVIRON SAFE. 2024 Jul;279:116501 WB ;Mouse. 38805831
- **[IF=6.2]** Jie Yang. et al. Neohesperidin alleviates the inhibitory effect of bisphenol A on the myogenic differentiation of umbilical cord mesenchymal stem cells via the IGF1R/AKT1/RHOA signaling pathway. ECOTOX ENVIRON SAFE. 2024 Sep;283:116804 WB ;Sheep. 39083871

- **[IF=6.1]** Ruixue Zhang. et al. The miR-15b-5p/miR-379-3p-FOXO axis regulates cell cycle and apoptosis in scleral remodeling during experimental myopia. J TRANSL MED. 2024; 22: 710 WB ;Guinea pig. 39080755
- **[IF=6.208]** Yanan Hao. et al. Alginate Oligosaccharides Repair Liver Injury by Improving Anti-Inflammatory Capacity in a Busulfan-Induced Mouse Model. INT J MOL SCI. 2023 Jan;24(4):3097 Other ;. 36834506
- **[IF=5.195]** Chao Ma. et al. Anti-cervical cancer effects of Compound Yangshe granule through the PI3K/AKT pathway based on network pharmacology. J ETHNOPHARMACOL. 2022 Oct;:115820 WB ;Mouse. 36220511