

BOSTER BIOLOGICAL TECHNOLOGY

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

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| Basic Information | | |
|--------------------|---|--|
| Product Name | Anti-IGF1R Antibody | |
| Gene Name | lgf1r | |
| Source | Rabbit | |
| Isotype | IgG | |
| Species Reactivity | mouse, rat | |
| Tested Application | WB, IHC, ELISA | |
| Contents | 500 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol. | |
| Immunogen | E. coli-derived mouse IGF1 Receptor recombinant protein (Position: E31-K257). | |
| concentration | 500 ug/ml | |
| Purification | Immunogen affinity purified. | |
| Observed MW | 155KD | |
| Dilution Ratios | Western blot(WB): Immunohistochemistry in paraffin section (IHC): (ELISA): (Boiling the paraffin sections in 10mM citrate buffer mins is required for the staining of formalin/paraffin must be determined by end user. | |

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

IGF1R(Insulin-like Growth Factor 1 (IGF-1) Receptor) is a protein found on the surface of human cells. It is a transmembrane receptor that is activated by a hormone called Insulin-like growth factor 1 (IGF-1) and by a related hormone called IGF-2. It belongs to the large class of tyrosine kinase receptors. The IGF1R gene is mapped on 15q26.3. IGF-1 plays an important role in growth and continues to have anabolic effects in adults - meaning that it can induce hypertrophy of skeletal muscle and other target tissues. Using a yeast 2-hybrid system, it was identified a regulatory subunit of phosphatidylinositol (PI) 3-kinase, PIK3R3, as a binding partner of IGF1R. Functional interaction between BRCA1 and SP1 in the regulation of the IGF1R gene was studied in Schneider cells, a Drosophila cell line which lacks endogenous SP1. In these cells, BRCA1 suppressed 45% of the SP1-induced trans-activation of the IGF1R promoter. Overexpression of the Grb10-binding fragment of Gigyf1 resulted in a significant increase in Igf1-stimulated Igf1r tyrosine phosphorylation. Like the insulin receptor, the IGF-1 receptor is a receptor tyrosine kinase - meaning it signals by causing the addition of a phosphate molecule on particular tyrosines. IGF-1 activates the Insulin receptor at approximately 0.1x the potency of insulin. Part of this signaling may be via IGF1R-InsulinReceptor heterodimers.

Selected Validation Data

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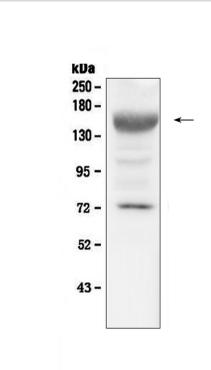


Figure 1. Western blot analysis of IGF1 Receptor using anti-IGF1 Receptor antibody (A00070). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse liver tissue lysates. probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) A specific band was detected for IGF1 Receptor at approximately 155KD. The expected band size for IGF1 Receptor is at 155KD.

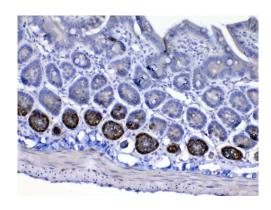


Figure 2. IHC analysis of IGF1 Receptor using anti-IGF1 Receptor antibody (A00070).IGF1 Receptor was detected in paraffinembedded section of mouse small intestine tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.