Anti-IGF-1R (Ab-1161) Antibody

Catalog Number: A00070-1

About IGF1R

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.

Li S, et al. (1994) J Biol Chem; 269(51).
Hernandez-Sanchez C, et al. (1995) J Biol Chem.

Overview

Product Name	Anti-IGF-1R (Ab-1161) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IGF-1R (Ab-1161) Antibody (Catalog # A00070-1). Tested in WB, IHC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, WB
Clonality	Polyclonal 1E12E1
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P08069

Technical Details

Immunogen	Peptide sequence around aa.1159~1163 (D-I-Y-E-T) derived from Human IGF-1R .
Predicted Reactive Species	Human
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.

Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.
	If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.
	Some PubMed article(s) citing the expression level of this target are as follows:
	Boster Bio's internal QC testing used:
	Predicted MW: 200 95 kd
	Western blotting: 1:500~1:1000
	Immunohistochemistry: 1:50~1:100
	Immunofluorescence: 1:100~1:200

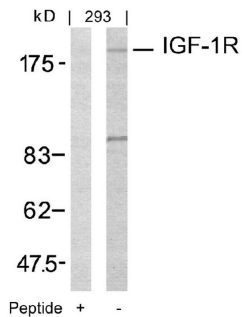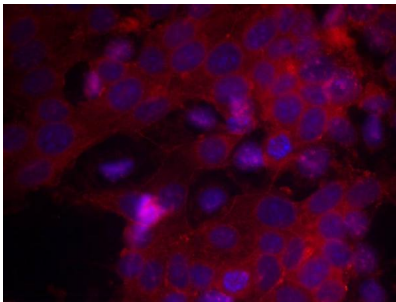# Anti-IGF-1R (Ab-1161) Antibody (A00070-1) Images

Figure 1. Western blot analysis of IGF1R using anti-IGF1R antibody (A00070-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IGF1R antigen affinity purified polyclonal antibody (Catalog # A00070-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for IGF1R.

Immunofluorescence staining of methanol-fixed MCF cells using IGF-1R(Ab-1161) Antibody #A00070-1.
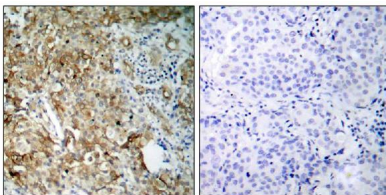

Figure 2. IHC analysis of IGF1R using anti-IGF1R antibody (A00070-1).
IGF1R was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-IGF1R Antibody (A00070-1) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

5 Publications Citing This Product

1. PubMed ID: 19424673, Treating Human Meniscal Fibrochondrocytes with hIGF-1 Gene by Liposome

2. PubMed ID: 27725848, Let-7a inhibits migration of melanoma cells via down-regulation of HMGA2 expression

3. PubMed ID: 27833148, IGF-1/IGF-1R/hsa-let-7c axis regulates the committed differentiation of stem cells from apical papilla

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