BT LAB
Bioassay Technology Laboratory
Optimize Your Research

IGF1R-Beta Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4332
Host	Mouse
Isotype	Mouse IgG2b
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of IGF1R-Beta expressed in E. Coli.
Mol wt	96kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	IHC
Concentration	N/A
Full name	N/A
Synonyms	IGF1R, IGF1R-Beta

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

IGF1R (insulin-like growth factor 1 receptor), a transmembrane receptor tyrosine kinase, is widely expressed in many cell types within fetal and postnatal tissues, and in many cell lines. Upon binding to its ligands, IGF-I and IGF-II, receptor autophosphorylation occurs. The triple tyrosine cluster within the kinase domain (Tyr1131, Tyr1135 and Tyr1136) is the earliest major site of autophosphorylation. Phosphorylation of these three tyrosine residues is necessary for kinase activation.Insulin receptors (IRs) share significant similarity with IGF1 receptors in both structure and function,including an equivalent triple tyrosine cluster within the activation loop of the kinase domain (Tyr1146, Tyr1150 and Tyr1151).Tyrosine autophosphorylation of insulin receptor is one of the earliest cellular responses to insulin stimulation. Autophosphorylation begins with phosphorylation of Tyr1146 and either Tyr1150 or Tyr1151. Full kinase activation requires the triple tyrosine phosphorylation.

Recommended Dilution

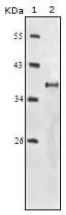
WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

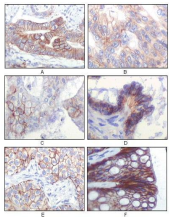
ELISA: 1:10000

Not yet tested in other applications.

Images



Western blot analysis using IGF1R-Beta mouse mAb against truncated IGF1R-Beta recombinant protein.



Immunohistochemical analysis of paraffin-embedded human gastric adenocarcinoma(A), colon adenocarcinoma(B), endometrial carcinoma(uterus)(C), ovary adenocarcinoma(D), lung squamous cell carcinoma(E), stomach epithelium mucosae(F), showing membrane localization using IGF1R-Beta mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com