



GRB10 Polyclonal Antibody

Catalog No	YP-Ab-03907
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	GRB10
Immunogen	The antiserum was produced against synthesized peptide derived from human GRB10. AA range:33-82
Specificity	GRB10 Polyclonal Antibody detects endogenous levels of GRB10 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Grb 10;GRB IR;GRB10;GRB10 adapter protein;GRBIR;IRBP;KIAA0207;MEG1;RSS;Growth factor receptor-bound protein 10;Insulin receptor-binding protein Grb-IR
Observed Band	67kD
Calculated Molecular Weight	67kD
Cell Pathway	Cytoplasm . When complexed with NEDD4 and IGF1R, follows IGF1R internalization, remaining associated with early endosomes. Uncouples from IGF1R-containing endosomes before the sorting of the receptor to the lysosomal compartment (By similarity). .
Tissue Specificity	Widely expressed in fetal and adult tissues, including fetal and postnatal liver, lung, kidney, skeletal muscle, heart, spleen, skin and brain.
Function	alternative products:Additional isoforms seem to exist,function:Plays a functional role in insulin and IGF-I signaling. May serve to positively link the insulin and IGF-I receptors to an uncharacterized mitogenic signaling pathway. Interacts with the cytoplasmic domain of the autophosphorylated insulin receptor which is then inhibited. The interaction is mediated by the SH2 domain. Also binds



activated platelet-derived growth factor receptor and epidermal growth factor receptor.,similarity:Belongs to the GRB7/10/14 family.,similarity:Contains 1 PH domain.,similarity:Contains 1 Ras-associating domain.,similarity:Contains 1 SH2 domain.,subunit:Interacts with GIGYF1/PERQ1 and GIGYF2/TNRC15.,tissue specificity:Highly expressed in skeletal muscle.,

Background

The product of this gene belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with insulin receptors and insulin-like growth-factor receptors. Overexpression of some isoforms of the encoded protein inhibits tyrosine kinase activity and results in growth suppression. This gene is imprinted in a highly isoform- and tissue-specific manner, with expression observed from the paternal allele in the brain, and from the maternal allele in the placental trophoblasts. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2010],

matters needing attention

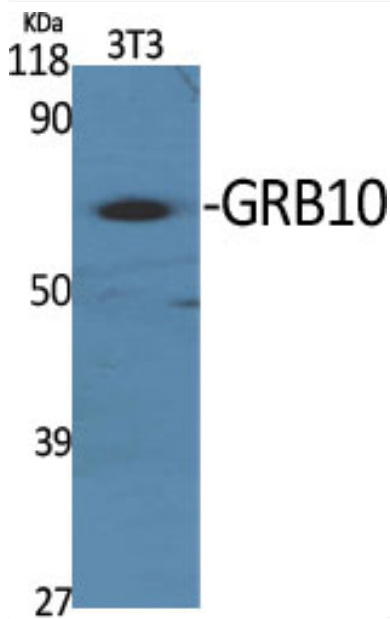
Avoid repeated freezing and thawing!

Usage suggestions

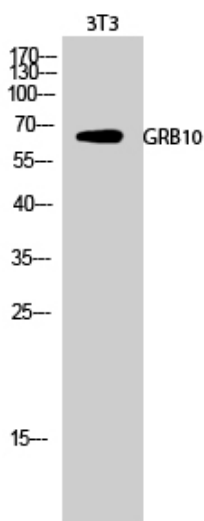
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



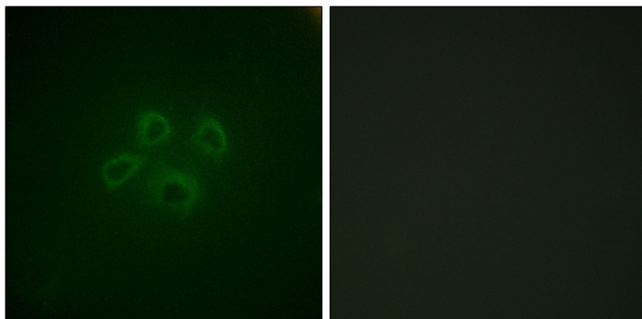
Products Images



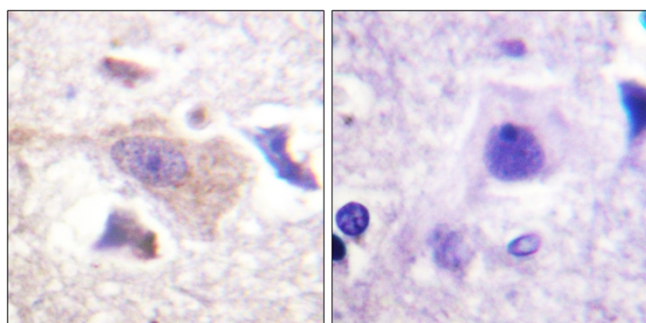
Western Blot analysis of various cells using GRB10 Polyclonal Antibody diluted at 1:2000



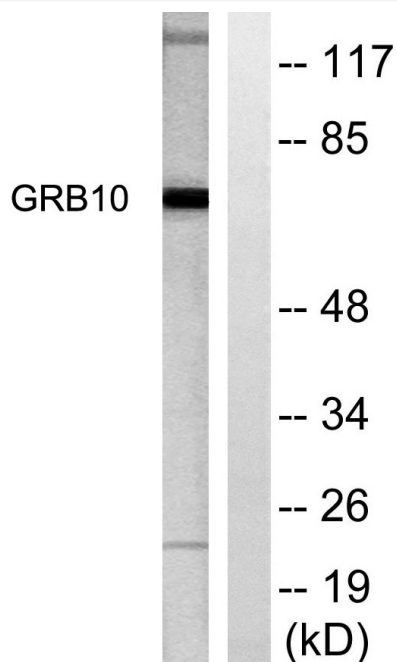
Western Blot analysis of 3T3 cells using GRB10 Polyclonal Antibody diluted at 1:2000



Immunofluorescence analysis of HepG2 cells, using GRB10 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using GRB10 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from NIH/3T3 cells, treated with Insulin 0.01U/ml 15', using GRB10 Antibody. The lane on the right is blocked with the synthesized peptide.