

Product datasheet

Anti-GRB10 antibody ab154029

★★★★☆ 3 Abreviews 2 References 1 Image

Overview

Product name	Anti-GRB10 antibody
Description	Rabbit polyclonal to GRB10
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment, corresponding to a region within amino acids 354-594 of Human GRB10 (UniProt: Q13322).
Positive control	HepG2 whole cell lysate (ab7900).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: PBS, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab154029** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★☆	Use at an assay dependent concentration.
WB	★★★★☆	1/500 - 1/3000. Predicted molecular weight: 67 kDa.

Target

Function

Adapter protein which modulates coupling of a number of cell surface receptor kinases with specific signaling pathways. Binds to, and suppress signals from, activated receptors tyrosine kinases, including the insulin (INSR) and insulin-like growth factor (IGF1R) receptors. The inhibitory effect can be achieved by 2 mechanisms: interference with the signaling pathway and increased receptor degradation. Delays and reduces AKT1 phosphorylation in response to insulin stimulation. Blocks association between INSR and IRS1 and IRS2 and prevents insulin-stimulated IRS1 and IRS2 tyrosine phosphorylation. Recruits NEDD4 to IGF1R, leading to IGF1R ubiquitination, increased internalization and degradation by both the proteasomal and lysosomal pathways. May play a role in mediating insulin-stimulated ubiquitination of INSR, leading to proteasomal degradation. Negatively regulates Wnt signaling by interacting with LRP6 intracellular portion and interfering with the binding of AXIN1 to LRP6. Positive regulator of the KDR/VEGFR-2 signaling pathway. May inhibit NEDD4-mediated degradation of KDR/VEGFR-2.

Tissue specificity

Widely expressed in fetal and adult tissues, including fetal and postnatal liver, lung, kidney, skeletal muscle, heart, spleen, skin and brain.

Sequence similarities

Belongs to the GRB7/10/14 family.
Contains 1 PH domain.
Contains 1 Ras-associating domain.
Contains 1 SH2 domain.

Domain

The PH domain binds relatively non-specifically to several phosphoinositides, including PI(5)P, PI(4,5)P2, PI(3,4)P2 and PI(3,4,5)P3, with modest affinities.

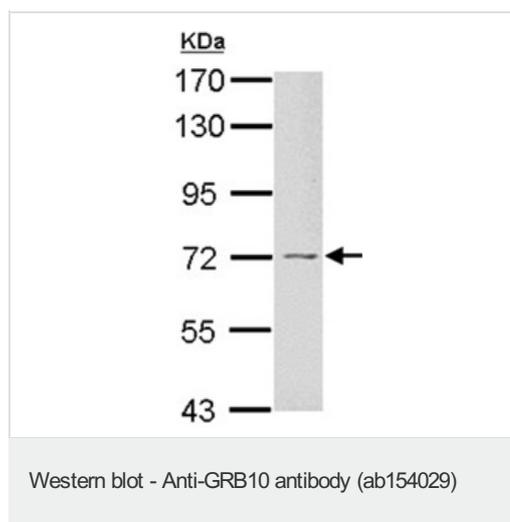
Post-translational modifications

phosphorylated on serine residues upon EGF, FGF and PDGF stimulation.

Cellular localization

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.

Images



Anti-GRB10 antibody (ab154029) at 1/2000 dilution + HepG2 whole cell lysate at 30 µg

Predicted band size: 67 kDa

7.5% SDS PAGE.

Secondary antibody - goat [anti-rabbit HRP \(ab6721\)](#)

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