

Recombinant Human GRB10 protein ab152439

1 Image

Description	
Product name	Recombinant Human GRB10 protein
Expression system	Wheat germ
Accession	<u>Q13322-3</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MNASLESLYSACSMQSDTVPLLQNGQHARSQPRASGPP RSIQPQVSPRQR VQRSQPVHILAVRRLQEEDQQFRTSSLPAIPNPFPELCGP GSPPVLTPGS LPPSQAAAKQDVKVFSEDGTSKVVEILADMTARDLCQLL VYKSHCVDDNS WTLVEHHPHLGLERCLEDHELVVQVESTMASESKFLFRK NYAKYEFFKNP MNFFPEQMVTWCQQSNGSQTQLLQNFLNSSSCPEIQGFL HVKELGKKSWK KLYVCLRRSGLYCSTKGTSKEPRHLQLLADLEDSNIFSLIA GRKQYNAPT DHGLCIKPNKVRNETKELRLLCAEDEQTRTCWMTAFRLK YGMILLYQNYR IPQQRKALLSPFSTPVRSVSENSLVAMDFSGQTGRVIENP AEAQSAALEE GHAWRKRSTRMNILGSQSPLHPSTLSTVIHRTQHWFHGRI SREESHRIK QQGLVDGLFLLRDSQSNPKAFVLTLCHHQKIKNFQILPCE DDGQTFFSLD DGNTKFSDLIQLVDFYQLNKGVLPCCLKHHHCIRVAL
Predicted molecular weight	87 kDa including tags
Amino acids	1 to 536
Additional sequence information	This recombinant protein is related to isoform 2 which lacks the first 58 amino acids of the canonical isoform.

Specifications

Our **Abpromise guarantee** covers the use of **ab152439** in the following tested applications.

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

Applications

- ELISA
- SDS-PAGE
- Western blot

Form Liquid

Additional notes

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

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.

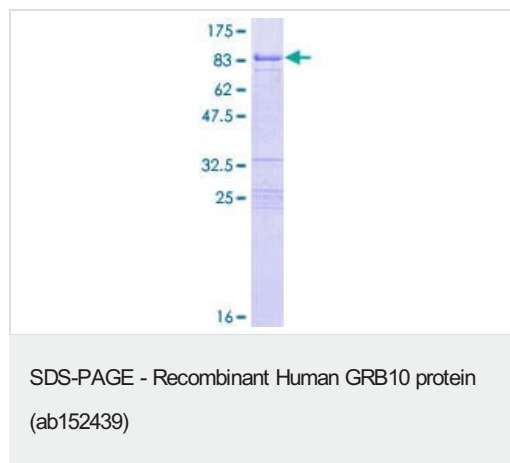
Post-translational modifications

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



12.5% SDS-PAGE analysis of ab152439 stained with Coomassie Blue.

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