

Datasheet for ABIN7563876
GRB10 Protein (AA 1-621) (His tag)



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Overview

Quantity:	1 mg
Target:	GRB10
Protein Characteristics:	AA 1-621
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRB10 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Grb10 Protein expressed in mammalien cells.
Sequence:	<p>MNNDINSSVE SLNSACNMQS DTDAPLLED GQHASNQGAA SSSRGQPQAS PRQKMQRSQP VHILRRQLQEE DQQLRTASLP AIPNPFPELT GAAPGSPPSV APSSLPPPPS QPPAKHCGRC EKWIPGENTR GNGKRKIWRW QFPPGFQLSK LTRPGLWTKT TARFSKKQPK NQCPTDTVNP VARMPTSQME KLRLRKDVKV FSEDGTSKVV EILTDMTARD LCQLLVYKSH CVDDNSWTLV EHHPQLGLER CLEDHEIVVQ VESTMPSESK FLFRKNYAKY EFFKNPVNFF PDQMVNWCQQ SNGGQAQLLQ NFLNTSSCPE IQGFLQVKEV GRKSWKKLYV CLRRSGLYYS TKGTSKEPRH LQLLADLEES SIFYLIAGKK QYNAPNEHGM CIKPNKAKTE MKELRLLCAE DEQIRTCWMT AFRLLKYGML LYQNYRIPQR KGLPPPFNAP MRSVSENSLV AMDFSGQIGR VIDNPAAEQS AALEEGHAWR KRSTRMNILS SQSPLHPSTL NAVIHRTQHW FHGRISREES HRIIKQQGLV DGLFLLRDSQ SNPKAFVLTL CHHQKIKNFQ ILPCEDDGQT FFTLDDGNTK FSDLIQLVDF YQLNKGVLPC KLVKHCIRVA L Sequence without tag. The proposed Purification-Tag is based</p>

on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

GRB10

Alternative Name:

Grb10 ([GRB10 Products](#))

Background:

Growth factor receptor-bound protein 10 (GRB10 adapter protein) (Maternally expressed gene 1 protein),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. A similar role in the mediation of ubiquitination has also been suggested with INSR. Negatively regulates Wnt signaling by interacting with

Target Details

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. {ECO:0000269|PubMed:12697834, ECO:0000269|PubMed:12829789, ECO:0000269|PubMed:15664450, ECO:0000269|PubMed:17376403, ECO:0000269|PubMed:18286479}.

Molecular Weight: 70.6 kDa

UniProt: [Q60760](#)

Pathways: [Regulation of Carbohydrate Metabolic Process](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months