

Datasheet for ABIN1881389

**anti-GRB10 antibody (N-Term)**[Go to Product page](#)**1** Image**5** Publications

## Overview

Quantity:	400 µL
Target:	GRB10
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRB10 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This GRB10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GRB10.
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	GRB10
Alternative Name:	GRB10 ( <a href="#">GRB10 Products</a> )
Background:	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

## Target Details

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.

Molecular Weight:	67231
NCBI Accession:	<a href="#">NP_001001549</a> , <a href="#">NP_001001550</a> , <a href="#">NP_001001555</a> , <a href="#">NP_005302</a>
UniProt:	<a href="#">Q13322</a>
Pathways:	<a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a>

## Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

## Publications

Product cited in:	Nantel, Mohammad-Ali, Sherk, Posner, Thomas: "Interaction of the Grb10 adapter protein with
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the Raf1 and MEK1 kinases." in: **The Journal of biological chemistry**, Vol. 273, Issue 17, pp. 10475-84, (1998) ([PubMed](#)).

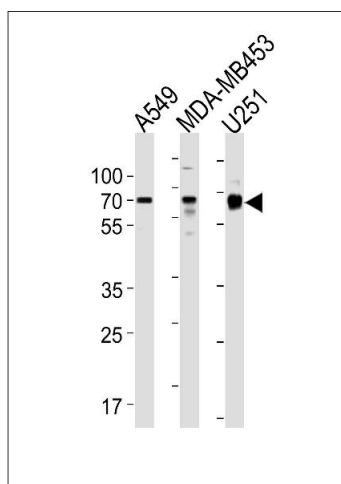
Frantz, Giorgetti-Peraldi, Ottinger, Shoelson: "Human GRB-IRbeta/GRB10. Splice variants of an insulin and growth factor receptor-binding protein with PH and SH2 domains." in: **The Journal of biological chemistry**, Vol. 272, Issue 5, pp. 2659-67, (1997) ([PubMed](#)).

Dong, Du, Porter, Kolakowski, Lee, Mandarino, Fan, Yee, Liu, Mandarino: "Cloning, chromosome localization, expression, and characterization of an Src homology 2 and pleckstrin homology domain-containing insulin receptor binding protein hGrb10gamma." in: **The Journal of biological chemistry**, Vol. 272, Issue 46, pp. 29104-12, (1997) ([PubMed](#)).

ONeill, Rose, Pillay, Hotta, Olefsky, Gustafson: "Interaction of a GRB-IR splice variant (a human GRB10 homolog) with the insulin and insulin-like growth factor I receptors. Evidence for a role in mitogenic signaling." in: **The Journal of biological chemistry**, Vol. 271, Issue 37, pp. 22506-13, (1996) ([PubMed](#)).

Liu, Roth: "Grb-IR: a SH2-domain-containing protein that binds to the insulin receptor and inhibits its function." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 92, Issue 22, pp. 10287-91, (1995) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** GRB10 Antibody (N-term) (ABIN1881389 and ABIN2843459) western blot analysis in A549,MDA-M, cell line lysates (35 µg/lane).This demonstrates the GRB10 antibody detected the GRB10 protein (arrow).