

Rabbit GRB10 Polyclonal Antibody | anti-GRB10 antibody

Phospho-GRB10 (Ser476) Antibody

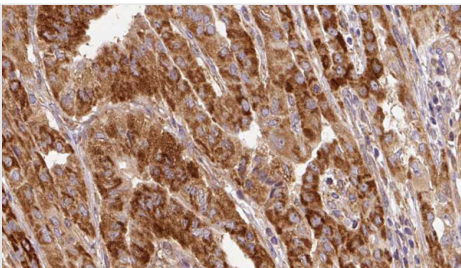
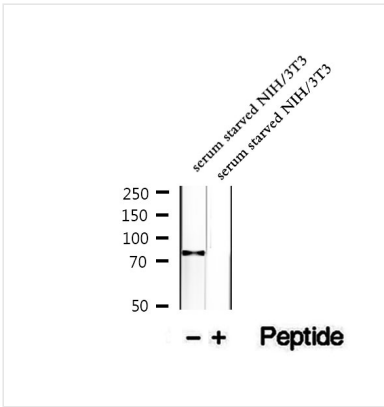
CATALOG # AAA321331	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

GRB10; Polyclonal Antibody; Phospho-GRB10 (Ser476) Antibody; grb 10; GRB IR; grb-10; GRB10 adapter protein; GRB10 adaptor protein; GRB10_HUMAN; GRBIR; Growth factor receptor bound protein 10; Growth factor receptor-bound protein 10; Insulin receptor binding protein; Insulin receptor binding protein GRB IR; Insulin receptor-binding protein Grb-IR; IRBP; KIAA0207; Maternally expressed gene 1; MEG1; RSS; anti-GRB10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-GRB10 (Ser476) antibody detects endogenous levels of GRB10.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	548
Applicable Applications for anti-GRB10 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GRB10 around the phosphorylation site of Ser476.
Subcellular Location	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.
Tissue Specificity	Widely expressed in fetal and adult tissues, including fetal and postnatal liver, lung, kidney, skeletal muscle, heart, spleen, skin and brain.
Predicted Cross Reactivity	Pig, Horse, Sheep, Xenopus
Similarity	Pig (100%), Horse (100%), Sheep (92%), Xenopus (92%)
Conjugation	Unconjugated
Epitope	Phospho Ser476
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321331 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of serum starved NIH/3T3 cells, using Phospho-GRB10 (Ser476) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GRB10 antibody

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.

Subunit Structure: Interacts with ligand-activated tyrosine kinase receptors, including FGFR1, INSR, IGF1R, MET and PDGFRB in a phosphotyrosine-dependent manner through the SH2 domain (By similarity). Poorly binds to the EGFR (By similarity). Directly interacts with MAP3K14/NIK and is recruited to the EGFR-ERBB2 complex. Interacts with GIGYF1/PERQ1 and GIGYF2/TNRC15 (By similarity). When unphosphorylated, interacts with AKT1 and when phosphorylated with YWHAE/14-3-3 epsilon. Interacts with NEDD4. Interacts with LRP6, thus interfering with the binding of AXIN1 to LRP6 (By similarity). Binds to activated NRAS.

Post-translational Modifications: Phosphorylated on serine residues upon EGF, FGF and PDGF stimulation (By similarity). Phosphorylated at Tyr-67 by TEC.

Similarity: The PH domain binds relatively non-specifically to several phosphoinositides, including PI5P, PI(4, 5)P2, PI(3, 4)P2 and PI(3, 4, 5)P3, with modest affinities. Belongs to the GRB7/10/14 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48762693
NCBI GeneID	2887
NCBI Accession #	NP_001001549.1
NCBI GenBank Nucleotide #	NM_001001549.2
UniProt Accession #	Q13322; O00427; O00701; O75222; Q92606; Q92907; Q92948; A4D258; A7VJ95; A8K0E6; D3DVM9
Molecular Weight	Observed: 80 kDa Predicted: 68 kDa
NCBI Official Full Name	growth factor receptor-bound protein 10 isoform b
NCBI Official Synonym Full Names	growth factor receptor bound protein 10
NCBI Official Symbol	GRB10

NCBI Official Synonym Symbols	RSS; IRBP; MEG1; GRB-IR; Grb-10
NCBI Protein Information	growth factor receptor-bound protein 10
UniProt Protein Name	Growth factor receptor-bound protein 10
UniProt Gene Name	GRB10
UniProt Synonym Gene Names	GRBIR; KIAA0207

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/grb10-antibody-immunohistochemistry-western-blot-elisa/321331>