GRB10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Grb10, Polyclonal Antibody
Full Product Name	Grb10, Phosphorylated (Ser501/Ser503) (Growth Factor Receptor-bound Protein 10, GRB10 Adapter Protein, Insulin Receptor-binding Protein Grb-IR, GRBIR, KIAA0207) (MaxLight 405)
Product Gene Name	anti-Grb10 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by affinity chromatography.
Specificity	Recognizes human Grb10 phosphorylated at Ser501/Ser503.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	66,487 Da
OMIM	601523
3D Structure	ModBase 3D Structure for Q13322
Immunogen	Synthetic linear peptide corresponding to human Grb10 phosphorylated at Ser501/Ser503 (KLH). Species sequence homology: human, porcine, rhesus macaque, equine, primate (100%), rat (91%).
Conjugate	MaxLight405
Positive Control	Insulin untreated and treated mouse embryonic fibroblast cell lysates
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-Grb10 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-Grb10 antibody	Western Blot (WB)
Application Notes for anti-Grb10 antibody	WB: 1ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-Grb10 antibody	MBS6269610 is an antibody targeting Grb10. Also known as Grb10, Phosphorylated (Ser501/Ser503) (Growth Factor Receptor-bound Protein 10, GRB10 Adapter Protein, Insulin Receptor-binding Protein Grb-IR, GRBIR, KIAA0207) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-Grb10 antibody	1. Holt, L.J., et al. (2009). Mol Endocrinol. 23(9): 1406-14. 2. Holt, L.J. and Siddle, K. (2005). Biochem J. 388(Pt 2):393-406 3. Wick, K.R., et al. (2004). Mol Endocrinol. 18(2):350-358. 4. King, C.C., and Newton, A.C. (2004). J Biol Chem. 279(36):37518-37527.

Other Notes	Small volumes of anti-Grb10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Grb10. It may not necessarily be applicable to this product.

NCBI GI #	48762679
NCBI GeneID	2887
NCBI Accession #	NP_005302
UniProt Primary Accession #	Q13322
UniProt Secondary Accession #	O00427; O00701; O75222; Q92606; Q92907; Q92948; A4D258; A7VJ95; A8K0E6; D3DVM9
UniProt Related Accession #	Q13322
GenBank Nucleotide #	NM_005311.4
NCBI Official Full Name	growth factor receptor-bound protein 10 isoform a
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
UniProt Protein Name	Growth factor receptor-bound protein 10
UniProt Synonym Protein Names	GRB10 adapter protein; Insulin receptor-binding protein Grb-IR
Protein Family	Growth factor receptor-bound protein
UniProt Gene Name	GRB10
UniProt Synonym Gene Names	GRBIR; KIAA0207
UniProt Entry Name	GRB10_HUMAN
NCBI Protein Information	growth factor receptor-bound protein 10; GRB10 adapter protein; GRB10 adaptor protein; maternally expressed gene 1; insulin receptor-binding protein Grb-IR
NCBI Summary for Grb10	The product of this gene belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with insulin receptors and insulin-like growth-factor receptors. Overexpression of some isoforms of the encoded protein inhibits tyrosine kinase activity and results in growth suppression. This gene is imprinted in a highly isoform- and tissue-specific manner, with expression observed from the paternal allele in the brain, and from the maternal allele in the placental trophoblasts. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2010]

UniProt Comments for Grb10	GRB10: an adaptor protein that inhibits insulin-stimulated IRS-PI (3)K-Akt signaling pathway by disrupting the association of IRS with the insulin receptor. Also binds activated PDGFR and EGFR. Preferentially localizes to the mitochondria, modulating the anti-apoptotic activity of mitochondrial Raf-1. Can translocate to the plasma membrane and lamellipodia. Three alternatively spliced isoforms have been described. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 7p12.2 Cellular Component: cytoplasm; plasma membrane; cytosol Molecular Function: protein binding; SH3/SH2 adaptor activity; insulin receptor binding Biological Process: negative regulation of glucose import; negative regulation of Wnt receptor signaling pathway; insulin-like growth factor receptor signaling pathway; insulin receptor signaling pathway; negative regulation of phosphorylation; negative regulation of insulin receptor signaling pathway; positive regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of phosphorylation; response to insulin stimulus; negative regulation of glycogen biosynthetic process
Research Articles on Grb10	**1.** Tissue-specific methylation and possibly imprinting of GRB10 can influence glucose metabolism.
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