GRB10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GRB10, Polyclonal Antibody
Full Product Name	GRB10 Conjugated Antibody
Product Gene Name	anti-GRB10 antibody
Product Synonym Names	RSS; IRBP; MEG1; GRB-IR; Grb-10
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total GRB10 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	66,487 Da
OMIM	601523
3D Structure	ModBase 3D Structure for Q13322
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human growth factor receptor-bound protein 10
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-GRB10 antibody	Most Applications
Application Notes for anti-GRB10 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-GRB10 antibody	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.
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.

Searchable Terms for GRB10 purchase	MBS9447357 is an antibody targeting GRB10. Also known as GRB10 Conjugated Antibody. Reactive in Human. Host: Rabbit.

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
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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