G-Biosciences Image not found or type unknown

Immunotag™ GRB2 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT2056
Product Description	Immunotag™ GRB2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	GRB2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from GRB2, at AA range: 110-190
Specificity	GRB2 Polyclonal Antibody detects endogenous levels of GRB2 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	GRB2
Accession No.	P62993 Q60631 P62994
Alternate Names	GRB2; ASH; Growth factor receptor-bound protein 2; Adapter protein GRB2; Protein Ash; SH2/SH3 adapter GRB2

Antibody Specification

Description	growth factor receptor bound protein 2(GRB2) Homo sapiens The protein encoded by this gene binds the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. This gene is similar to the Sem5 gene of C.elegans, which is involved in the signal transduction pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],
Cell Pathway/ Category	MAPK_ERK_Growth,MAPK_G_Protein,ErbB_HER,Chemokine,Dorso-ventral axis formation,Focal adhesion,Gap junction,Jak_STAT,Natural killer cell mediated cytotoxicity,T_Cell_Receptor,B_Cell_Antigen,Fc epsilon RI,Neurotrophin,Insulin_Receptor,GnRH,Pathways in cancer,Colorectal cancer,Renal cell carcinoma,Endometrial cancer,Glioma,Prostate cancer,Chronic myeloid leukemia,Acute myeloid leukemia,Non-small cell lung cancer,
Protein Expression	Brain,Cajal-Retzius cell,Epidermis,Epithelium,Fetal brain cortex,Fe
Subcellular Localization	nucleus,nucleoplasm,nucleolus,cytoplasm,endosome,Golgi apparatus,cytosol,plasma membrane,cell-cell junction,COP9 signalosome,vesicle membrane,extracellular exosome,Grb2-EGFR complex,
Protein Function	Additional isoforms seem to exist,domain:The SH3 domains mediate interaction with RALGPS1 and SHB.,function:Adapter protein that provides a critical link between cell surface growth factor receptors and the Ras signaling pathway.,function:Isoform GRB3-3 does not bind to phosphorylated epidermal growth factor receptor (EGFR) but inhibits EGF-induced transactivation of a RAS-responsive element. Isoform GRB3-3 acts as a dominant negative protein over GRB2 and by suppressing proliferative signals, may trigger active programmed cell death.,similarity:Belongs to the GRB2/sem-5/DRK family.,similarity:Contains 1 SH2 domain.,similarity:Contains 2 SH3 domains.,subunit:Associates with activated Tyr-phosphorylated EGF receptors and PDGF receptors via its SH2 domain. Also associates to other cellular Tyr-phosphorylated proteins such as SIT1, IRS1, IRS4, SHC and LNK; probably via the concerted action of both its SH2 and SH3 domains. It also seems to interact with RAS in the signaling pathway leading to DNA synthesis. Binds to and translocates the guanine nucleotide exchange factors SOS. Interacts with phosphorylated TOM1L1 and MET. Interacts with the phosphorylated C-terminus of SH2B2. Interacts with phosphorylated SIT1, LAX1, LAT, LAT2 and LIME1 upon TCR and/or BCR activation. Interacts with NISCH, PTPNS1, REPS2 and the syntrophin SNTA1. Interacts with REPS1 and PIK3C2B via its SH3 domains (By similarity). Interacts with HCV NS5A via its SH3 domains. Interacts with CBL and CBLB. Interacts with JUB and CLNK (By similarity). Interacts with SHB, INPP5D/SHIP1, SKAP1 and SKAP2. Forms a complex with MUC1 and SOS1, through interaction of the SH3 domains with SOS1 and the SH2 domain with phosphorylated MUC1. Interacts with PRNP (By similarity). Interacts with RALGPS1 and with HCST. Interacts (via SH3 domain) with HEV ORF3 protein. Interacts with GAPT.,
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