Recombinant Human Growth Factor Receptor-Bound Protein 2, GST-tagged

Cat. No. GRB2-4847H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human GRB2 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	GRB2 is an adaptor protein that is the homolog of the Sem5 gene of C. elegans and Drk gene of Drosophila. GRB2 protein contains one SH2 domain and two SH3 domains and plays a role in growth factor-mediated signal transduction. GRB2 forms a complex with activated EGFR and the RAS-specific guanine nucleotide exchange factor SOS1 thereby mediating the growth factor-induced activation of RAS. GRB2 has been implicated in growth factor regulation of the cytoskeleton and DNA synthesis.
Applications	Western Blot
Molecular Weight	49 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, PH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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Purity	>95%
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Acute myeloid leukemia; Adaptive Immunity Signaling; Alpha6-Beta4 Integrin Signaling Pathway; Angiopoietin receptor Tie2-mediated signaling; Axon guidance; B Cell Receptor Signaling Pathway; BCR signaling pathway; Cell junction organization; Cell junction organization; Chemokine signaling pathway; Dorso-ventral axis formation; Dorso-ventral axis formation; EGFR downregulation; EPHA2 forward signaling; Endometrial cancer; Endometrial cancer

GENE INFORMATION

Gene Name	GRB2 growth factor receptor-bound protein 2 [Homo sapiens]
Official Symbol	GRB2
Synonyms	GRB2; growth factor receptor-bound protein 2; ASH; Grb3-3; MST084; NCKAP2; MSTP084; EGFRBP-GRB2; growth factor receptor-bound protein 2; HT027; protein Ash; OTTHUMP00000166095; OTTHUMP00000166096; OTTHUMP00000166097; OTTHUMP00000166098; SH2/SH3 adapter GRB2; abundant SRC homology; growth factor receptor-bound protein 3; epidermal growth factor receptor-binding protein GRB2
Gene ID	2885

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mRNA Refseq	NM_002086
Protein Refseq	NP_002077
MIM	108355
UniProt ID	P62993
Chromosome Location	17q24-q25
Function	SH3/SH2 adaptor activity; epidermal growth factor receptor binding; insulin receptor substrate binding; phosphoprotein binding; phosphotyrosine binding; protein binding; protein domain specific binding
PDBrendering based on 1gri.	

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