

Recombinant Human Growth Factor Receptor-bound Protein 2, His-tagged

Cat. No. GRB2-500H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GRB2 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 27kDa.
Species	Human
Source	E.coli
Description	Growth factor receptor-bound protein 2 also known as Grb2 is an adaptor protein that provides a critical link between cell surface growth factor receptors and the Ras signaling pathway. GRB2 is widely expressed and also binds the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Grb2 is composed of an SH2 domain flanked on each side by an SH3 domain. Inhibition of Grb2 function impairs developmental processes in various organisms and blocks transformation and proliferation of various cell types.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEAIKYDFK ATADDELSFK RGDILKVLNE ECDQNWYKAE LNGKDGFIK NYIEMKPHPW FFGKIPRAKA EEMLSKQRHD GAFLIRESES APGDFSLSVK FGNDVQHFKV LRDGAGKYFL WVKFNSLNE LVDYHRSTSV SRNQQIFLRD IEQVPQQPTY VQALFDFDPQ EDGELGFRRG DFIHVMDNSD PNWWKGACHG QTGMFPRNYV TPVNRNV.
From	Liquid. In 20mM Tris-HCl (pH8.0) buffer containing 30% glycerol.
Purity	> 95% by SDS-PAGE.

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Concentration	1mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	GRB2 growth factor receptor-bound protein 2 [Homo sapiens]
Synonyms	GRB2; growth factor receptor-bound protein 2; ASH; Grb3-3; MST084; NCKAP2; MSTP084; EGFRBP-GRB2; Adapter protein GRB2; SH2/SH3 adapter GRB2; Protein Ash; HT027; growth factor receptor-bound protein 3; epidermal growth factor receptor-binding protein GRB2; abundant SRC homology ; OTTHUMP00000166096; OTTHUMP00000166097; OTTHUMP00000166098
Gene ID	2885
mRNA Refseq	NM_002086
Protein Refseq	NP_002077
MIM	108355
UniProt ID	P62993
Chromosome Location	17q24-q25
Pathway	Acute myeloid leukemia; B cell receptor signaling pathway; Chemokine signaling pathway; Chronic myeloid leukemia; Colorectal cancer; Dorso-ventral axis formation; ErbB signaling pathway; Endometrial cancer; Focal adhesion; Fc epsilon RI signaling

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pathway; Gap junction; Glioma; GnRH signaling pathway; Insulin signaling pathway; Jak-STAT signaling pathwayV; MAPK signaling pathway; Natural killer cell mediated cytotoxicity; Neurotrophin signaling pathway; Non-small cell lung cancer; Pathways in cancer; Prostate cancer; Renal cell carcinoma; T cell receptor signaling pathway

Function

SH3/SH2 adaptor activity; epidermal growth factor receptor binding; insulin receptor substrate binding; phosphoprotein binding; phosphotyrosine binding; protein domain specific binding

PDB rendering based on 1aze.

