

Datasheet for 009-001-R99S**GRB2 protein-GST fusion****Overview**

Description:	GRB2 recombinant protein-GST fusion protein - 009-001-R99S
Item No.:	009-001-R99S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	GRB2 is an adaptor protein that is the homolog of the Sem5 gene of <i>C. elegans</i> and Drk gene of <i>Drosophila</i> . 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 (1). GRB2 has been implicated in growth factor regulation of the cytoskeleton and DNA synthesis. DAB2 also binds to GRB2 and competes with SOS for GRB2 binding. GRB2 interacts with the hepatitis C virus nonstructural 5A (NS5A) protein and inhibits the activation of ERK1 and ERK2 by EGF (2). GRB2 Protein is ideal for investigators involved in Signaling Proteins, Adaptor Proteins, Angiogenesis, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, ERK/MAPK Pathway, Invasion/Metastasis, JAK/STAT Pathway, and Neurobiology research.
Synonyms:	ASH, Grb3-3, MST084, MSTP084, EGFRBP-GRB2, Growth factor receptor-bound protein 2, Adapter protein GRB2, Protein Ash, SH2/SH3 adapter GRB2
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	GBR2
Purity/Specificity:	Recombinant full-length human GRB2 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.

Relevant Links: • [NCBI - NM_002086](#)

Application Details

Application Note: GRB2 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. GRB2 Protein is suitable for use in Western Blot. Expect a band approximately ~49kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 0.2 µg/µL

Buffer: See application note.

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: 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.

Expiration: Expiration date is one (1) year from date of receipt.

References

- Jagannatha P et al. Large-scale tethered screen of RNA-binding proteins reveals novel regulators of poly(A) site selection. *Mol Cell.* (2026)

Disclaimer

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