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- Gefahrgutzuschlag
- Expressversand

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

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

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	ASH, Grb3-3, MST084, MSTP084, EGFRBP-GRB2, Growth factor receptor-bound protein 2, Adapter protein GRB2, Protein Ash, SH2/SH3 adapter GRB2
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein

**Target Details**

<b>Gene Name:</b>	GBR2
<b>Purity/Specificity:</b>	Recombinant full-length human GRB2 was expressed in <i>E. coli</i> 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

<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>WB:</b>	User Optimized

## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	0.2 µg/µL
<b>Buffer:</b>	See application note.

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.



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