

## Recombinant Human GRB7, GST-tagged

Cat. No. GRB7-6971H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human GRB7 was expressed by E.coli using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Full length
<b>Description</b>	GRB7 or growth factor receptor-bound protein 7 belongs to a small family of adapter proteins which interact with a number of receptor tyrosine kinases and signaling molecules. GRB7 encodes a growth factor receptor-binding protein that interacts with epidermal growth factor receptor (EGFR) and ephrin receptors. GRB7 is highly expressed in liver and kidney. GRB7 isoforms are involved in cell invasion and metastatic progression of human esophageal carcinomas. GRB7 plays an important role in the integrin signaling pathway and cell migration by binding with focal adhesion kinase (FAK).
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~91 kDa
<b>Purity</b>	>90%

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<b>Applications</b>	Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.2 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GRB7 growth factor receptor-bound protein 7 [ Homo sapiens ]
<b>Official Symbol</b>	GRB7
<b>Synonyms</b>	GRB7; growth factor receptor-bound protein 7; B47; GRB7 adapter protein; epidermal growth factor receptor GRB-7;
<b>Gene ID</b>	2886
<b>mRNA Refseq</b>	NM_001030002
<b>Protein Refseq</b>	NP_001025173
<b>MIM</b>	601522
<b>UniProt ID</b>	Q14451
<b>Chromosome Location</b>	17q12
<b>Pathway</b>	Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Downstream

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signal transduction, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; EPHB forward signaling, organism-specific biosystem; GRB7 events in ERBB2 signaling, organism-specific biosystem; Hemostasis, organism-specific biosystem;

**Function**

RNA binding; SH3/SH2 adaptor activity; identical protein binding; lipid binding; phosphatidylinositol binding; protein binding; protein kinase binding;

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