



Recombinant Protein Technical Manual

Recombinant Human GRB2 Protein (His Tag)

RPES0160

Product Data:

Product SKU: RPES0160

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P62993

Protein Information:

Molecular Mass: 26.3 kDa

AP Molecular Mass: 18-30 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Growth Factor Receptor-Bound Protein 2; Adapter Protein GRB2; Protein Ash; SH2/SH3 Adapter GRB2; GRB2; ASH

Immunogen Information:

Sequence: Met 1-Val217

Background:

As an adaptor protein, Growth Factor Receptor-Bound Protein 2 (GRB2) is involved in signal transduction and consists of a central SH2 domain flanked by two SH3 domains. GRB2 associates with activated Tyrosyl-phosphorylated EGF receptor/EGFR and PDGF receptors via its SH2 domain, stimulating GTP binding to Ras, which in turn activates MAPK and other signaling pathway. It also associates to other cellular Tyrosyl-phosphorylated proteins such as SIT1, IRS1, IRS4, SHC and LNK. probably via the concerted action of both its SH2 and SH3 domains.