

Product Information

GAB1, His-tagged, human recombinant, expressed in Sf9 insect cells

Catalog Number **SRP5183**
Storage Temperature -70°C

Product Description

GAB1 is a member of the IRS1-like multisubstrate docking protein family and is a direct substrate of the epidermal growth factor receptor and the insulin receptor.¹ GAB1 is tyrosine phosphorylated upon stimulation of cells with various cytokines, growth factors, and antigen receptor. Tyrosine phosphorylation of GAB1 mediates interaction with several proteins that contain SH2 domains such as SHP2 and phosphatidylinositol 3-kinase. GAB1 is an important mediator of branching tubulogenesis and plays a central role in cellular growth response, transformation, and apoptosis.²

Recombinant full-length human GAB1 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. The gene accession number is NM_207123. Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol.

Molecular mass: ~108 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

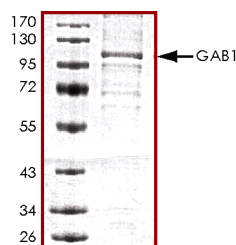
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Holgado-Madruga, M. et al., A Grb2-associated docking protein in EGF- and insulin-receptor signalling. *Nature*, **379**, 560-564 (1996).
2. Kiyatkin, A. et al., Scaffolding protein Grb2-associated binder 1 sustains epidermal growth factor-induced mitogenic and survival signaling by multiple positive feedback loops. *J. Biol. Chem.*, **281(29)**, 19925-19938 (2006).

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