Recombinant human RheB protein

Catalog Number: RHB0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-181aa

UniProt No.
Q15382

NCBI Accession No.
NP_005605

Alternative Names
Ras homolog enriched in brain, RHEB2, Ras homolog enriched in brain, GTP-binding protein Rheb, RheB, Ras homolog enriched in brain GTP binding protein Rheb, MGC111559, Ras homolog enriched in brain 2, RHEB 2.

PRODUCT SPECIFICATION

Molecular Weight
21.7 kDa (197aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
T7-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Ras homolog enriched in brain (RheB) is a member of the Ras superfamily that was originally identified as an immediate-early gene in brain but is also widely expressed in other tissues. RheB encodes a lipid-anchored, cell membrane protein with five repeats of the RAS-related GTP-binding region. RheB is vital in regulation of growth and cell cycle progression due to its role in the insulin/TOR/S6K signaling pathway. Recombinant human RheB protein, fused to T7-tag at N-terminus, was expressed in E. coli and purified by using conventional

chromatography techniques.

Amino acid Sequence

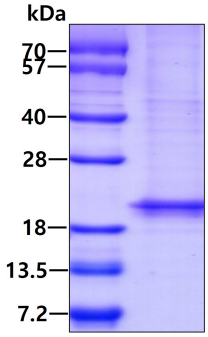
<MASMTGGQQM GRGSA>SMPQS KSRKIAILGY RSVGKSSLTI QFVEGQFVDS YDPTIENTFT KLITVNGQEY HLQLVDTAGQ DEYSIFPQTY SIDINGYILV YSVTSIKSFE VIKVIHGKLL DMVGKVQIPI MLVGNKKDLH MERVISYEEG KALAESWNAA FLESSAKENQ TAVDVFRRII LEAEKMDGAA SQGKSSC

General References

Yamagata K., et al. (1994) J Biol Chem. 269 (23) 16333-9.
Tabancay AP Jr., et al. (2003). J Biol Chem. 278(41):39921-30.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.