

# Recombinant human RheB protein

Catalog Number: RHB0901

## PRODUCT INFORMATION

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**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

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**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**

&gt; 95% 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

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**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

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chromatography techniques.

## Amino acid Sequence

MASMTGGQQM GRGSASMPQS KSRKIALGY RSVGKSSLTI QFVEGQFVDS YDPTIENTFT KLITVNGQEY HLQLVDTAGQ  
DEYSIFPQTY SIDINGYILV YSVTSIKSFE VIKVIHGKLL DMVGKVQIPI MLVGNKKDLH MERVISYEEG KALAESWNA  
FLESAKENQ TAVDVFRRRII LEAEKMDGAA SQGKSSC

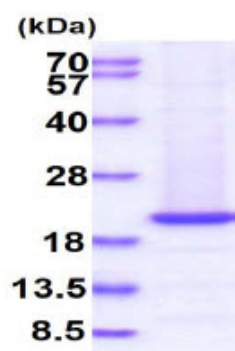
## General References

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



15% SDS-PAGE (3ug)

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