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Datasheet for ABIN1692309

RHEB Protein (AA 1-184) (GST tag)

Overview

Quantity:	50 µg
Target:	RHEB
Protein Characteristics:	AA 1-184
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RHEB protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human GTP-Binding Protein Rheb/RHEB (N-GST)
Sequence:	MPQSKSRKIA ILGYRSVGKS SLTIQFVEGQ FVDSYDPTIE NTFTKLITVN GQEYHLQLVD TAGQDEYSIF PQTYSIDING YILVYSVTSI KSFEVIKVIH GKLLDMVGKV QIPIMLVGNK KDLHMERVIS YEEGKALAES WNAAFLESSA KENQTAVDVF RRIILEAEKM DGAASQGKSS CSVM
Characteristics:	Recombinant Human GTP-Binding Protein Rheb/RHEB (N-GST)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	RHEB
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Target Details

Alternative Name:	GTP-Binding Protein Rheb/RHEB (RHEB Products)
Background:	<p>Recombinant Human GTP-Binding Protein Rheb/RHEB is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Met184) of Human RHEB fused with a GST tag at the N-terminus.</p> <p>GTP-Binding Protein Rheb (RHEB) is a member of the small GTPase superfamily and encodes a lipid-anchored, cell membrane protein with five repeats of the RAS-related GTP-binding region. Highest levels of RHEB can be found in the skeletal and cardiac muscle, and it is vital in the regulation of growth and cell cycle progression due to its role in the Insulin/TOR/S6K signaling pathway. RHEB stimulates the phosphorylation of S6K1 and EIF4EBP1 through activation of mTORC1 signaling, and it activates the protein kinase activity of mTORC1. RHEB has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form, farnesylation of the protein is required for this activity.</p>
Molecular Weight:	20.4 kDa
UniProt:	Q15382
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 10 mM GSH, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>