Datasheet for ABIN7319480

RHEB Protein (GST tag)

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Overview

Quantity:	50 µg
Target:	RHEB
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 RHEB Protein (GST Tag)
Sequence:	Met1-Met184
Characteristics:	Recombinant Human RHEB is produced by our E.coli expression system and the target gene encoding Met1-Met184 is expressed with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	RHEB
Alternative Name:	RHEB (RHEB Products)
Background:	Background: 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

Target Details

	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. Synonym: GTP-Binding Protein Rheb, Ras Homolog Enriched in Brain, RHEB, RHEB2
Molecular Weight:	20.4 kDa
UniProt:	Q15382
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 10 mM GSH, pH 8.0.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, 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.