



Recombinant Rat GTP-binding protein Rheb (Rheb)

Product Code	CSB-EP733832RA-B
Abbreviation	Rheb
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q62639
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MPQSKSRKIA ILGYRSVGKS SLTIQFVEGQ FVDSYDPTIE NTFTKLITVN GQEYHLQLVD TAGQDEYSIF PQTYSIDING YILVYSVTSI KSFEVIKVIH GKLLDMVGKV QIPIMLVGNK KDLHMERVIS YEEGKALAES WNAAFLESSA KENQTAVDVF RRIILEAEKI DGAASQGKSS C
Source	E.coli
Target Names	Rheb
Protein Names	Recommended name: GTP-binding protein Rheb Alternative name(s): Ras homolog enriched in brain
Expression Region	1-181
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This gene 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. This protein is vital in regulation of growth and cell cycle progression due to its role in the insulin/TOR/S6K signaling pathway. The protein has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form, and farnesylation of the protein is required for this activity. Three pseudogenes have been mapped, two on chromosome 10 and one on chromosome 22.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.