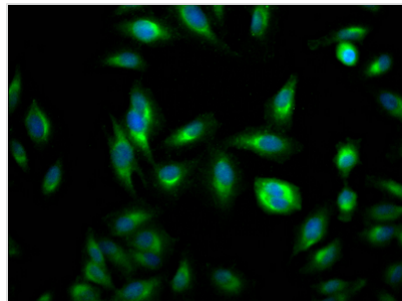




RHEB Antibody

Product Code	CSB-RA170650A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q15382
Immunogen	A synthesized peptide derived from human RHEB
Species Reactivity	Human
Tested Applications	ELISA, IF; Recommended dilution: IF:1:20-1:200
Relevance	Activates the protein kinase activity of mTORC1, and thereby plays a role in the regulation of apoptosis. Stimulates the phosphorylation of S6K1 and EIF4EBP1 through activation of mTORC1 signaling. Has low intrinsic GTPase activity.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Metabolism; Signal transduction
Gene Names	RHEB
Accession NO.	7G7

Image



Immunofluorescence staining of HeLa Cells with CSB-RA170650A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

RHEB, a small GTPase that belongs to a unique family within the Ras superfamily of GTPases, is biochemically activated by growth factors such as epithelial growth factors, fibroblast growth factors, and BDNF and is associated with cellular growth, protein synthesis, and regeneration. RHEB promotes growth, regeneration, and neuroprotection through the canonical mTORC1-S6K pathway. In the non-canonical RHEB-mTORC2 pathway, RHEB is involved in



senescence and cell cycle arrest as well as neurodegeneration.

This recombinant RHEB antibody was developed with the Single B cell platform. The main process included identification and isolation of single B cells; amplification and cloning of RHEB antibody gene; expression, screening, and identification of antibody specificity. And this RHEB antibody has been validated in ELISA, IF.