

# Recombinant Human Ras Homolog Enriched In Brain, GST-tagged

**Cat. No.** RHEB-1144H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>      | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b> | Recombinant human Rheb expressed in <i>E.coli</i> as fusion protein with GST. The eukaryotic translational machinery is under tight control by environmental and metabolic cues including ambient nutrients, hormonal regulation and the energy status of the cell itself. The Ras-related small GTPase Rheb (Ras homologue enriched in brain) acts as a pivotal player upstream of mTOR and p70S6K to regulate global as well as selective protein translation in response to the above mentioned factors. |
| <b>Usage</b>       | For in vitro use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>        | Liquid. Supplied in 25 mM HEPES pH 7.4, 5 mM MgCl <sub>2</sub> , 10 µM GTP, 50 % glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>      | > 95% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>     | Quality guaranteed for 12 months, Store at -80°C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                  |                                                            |
|------------------|------------------------------------------------------------|
| <b>Gene Name</b> | RHEB Ras homolog enriched in brain [ <i>Homo sapiens</i> ] |
|------------------|------------------------------------------------------------|

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|                            |                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | Ras homolog enriched in brain; RHEB2; MGC111559; RHEB; GTP-binding protein Rheb; Ras homolog enriched in brain 2; Ras homolog enriched in brain |
| <b>Gene ID</b>             | <a href="#">6009</a>                                                                                                                            |
| <b>mRNA Refseq</b>         | <a href="#">NM_005614</a>                                                                                                                       |
| <b>Protein Refseq</b>      | <a href="#">NP_005605</a>                                                                                                                       |
| <b>MIM</b>                 | <a href="#">601293</a>                                                                                                                          |
| <b>UniProt ID</b>          | <a href="#">Q15382</a>                                                                                                                          |
| <b>Chromosome Location</b> | 7q36                                                                                                                                            |
| <b>Pathway</b>             | Insulin signaling pathway; mTOR signaling pathway; Signaling by Insulin receptor                                                                |
| <b>Function</b>            | GTP binding; GTPase activity; nucleotide binding                                                                                                |

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