

Product datasheet for **TP720962**

RHEB (NM_005614) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human Ras homolog enriched in brain (RHEB) |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | Met1-Met184 |
| Tag: | N-GST |
| Predicted MW: | 20.4 kDa |
| Concentration: | lot specific |
| Purity: | >95% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl |
| Endotoxin: | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg) |
| Reconstitution Method: | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH ₂ O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Storage: | Store at -80°C. |
| Stability: | Stable for at least 6 months from date of receipt under proper storage and handling conditions. |
| RefSeq: | NP_005605 |
| Locus ID: | 6009 |
| UniProt ID: | Q15382 , A0A090N900 |
| RefSeq Size: | 1396 |
| Cytogenetics: | 7q36.1 |
| RefSeq ORF: | 552 |
| Synonyms: | RHEB2 |



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Summary:

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. [provided by RefSeq, Jul 2008]

Protein Pathways:

Insulin signaling pathway, mTOR signaling pathway