

Datasheet for 009-001-T20S**RHEB protein-HIS Epitope****Overview**

Description:	RHEB recombinant protein-HIS Epitope - 009-001-T20S
Item No.:	009-001-T20S
Size:	20 µg
Applications:	SDS-PAGE, WB
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	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. RHEB is vital in the regulation of growth and cell cycle progression. RHEB has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form. Drosophila RHEB is a direct target of Tsc2 GTPase-activating protein (GAP) activity both in vivo and in vitro. Point mutations in the Drosophila RHEB gene inhibit cell growth while overexpression promotes cell growth. RHEB functions downstream of Tsc1 and Tsc2 in the mTOR signaling pathway. RHEB Protein is ideal for investigators involved in Signaling Proteins, G-Proteins, Angiogenesis, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, ERK/MAPK Pathway, Invasion/Metastasis, and Neurobiology research.
Synonyms:	RHEB2, MGC111559, Ras Homolog Enriched in Brain, GTP-binding protein Rheb
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	RHEB
Purity/Specificity:	Recombinant full-length human RHEB was expressed by baculovirus in Sf9 insect cells using an N-Terminal his epitope. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_005614

Application Details

Tested Applications:	SDS-PAGE, WB
Application Note:	RHEB Protein is stored in 50mM NaPhosphate pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, 25% glycerol. Human RHEB Protein has been tested in SDS-Page and is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~21kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

