

Human GTP-binding protein Rheb (RHEB) ELISA Kit | RHEB elisa kit

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CATALOG #
AAA190404

REACTIVITY
Human

PRODUCT SYNONYMS

GTP-binding protein Rheb (RHEB); Human GTP-binding protein Rheb (RHEB) ELISA Kit; MGC111559; RHEB2; GTP-binding protein Rheb|Ras homolog enriched in brain 2; RHEB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human RHEB. No significant cross-reactivity or interference between Human RHEB and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Serum, Plasma, Other biological fluids
Detection Range	0.625-40ng/mL
Sensitivity	0.31ng/mL
Detection Wavelength	450nm
Assay Duration	1-4.5h
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Sample Volume	1-200uL
Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100 Intra-Assay: CV
Test Principle	This assay employs a two-site sandwich ELISA to quantitate RHEB in samples. An antibody specific for RHEB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any RHEB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RHEB is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of RHEB bound in the initial step. The color development is stopped and the intensity of the color is measured.
Preparation and Storage	Store at 2-8 degree C. Please refer to Instruction Manual.

ADDITIONAL INFORMATION

Related Product Information for RHEB elisa kit

Rheb is a recently discovered member of the Ras superfamily that may be involved in neural plasticity. This function is novel and not typically associated with the Ras proteins.

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6919957
NCBI GeneID	6009
UniProt Accession #	Q15382; Q53Y56; Q99444; B3KWN6; D3DX13
Molecular Weight	184
NCBI Official Full Name	GTP-binding protein Rheb
NCBI Official Synonym Full Names	Ras homolog enriched in brain
NCBI Official Symbol	RHEB
NCBI Official Synonym Symbols	RHEB2
NCBI Protein Information	GTP-binding protein Rheb; Ras homolog enriched in brain 2
UniProt Protein Name	GTP-binding protein Rheb
UniProt Gene Name	RHEB
UniProt Synonym Gene Names	RHEB2
UniProt Entry Name	RHEB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/gtp-binding-protein-rheb-rheb/190404>