SANTA CRUZ BIOTECHNOLOGY, INC.

# RhebL1 (T-13): sc-161187

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

RhebL1 (ras homolog enriched in brain-like protein 1), also known as Rheb2 or GTPase RhebL1, is a 183 amino acid protein that belongs to the small GTPase superfamily and Rheb family. Localizing to the cell membrane as well as the cytoplasm, RhebL1 is ubiquitously expressed and is increased two-fold in many tumor cell lines. RhebL1 exhibits GTPase activity and may activate NFκB-mediated gene transcription. Regulating the activity of Rictor, RhebL1 also promotes signal transduction. RhebL1 exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 12q13.12 and mouse chromosome 15 F1. Human chromosome 12 encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including Hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

## CHROMOSOMAL LOCATION

Genetic locus: RHEBL1 (human) mapping to 12q13.12; Rhebl1 (mouse) mapping to 15 F1.

## SOURCE

RhebL1 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RhebL1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161187 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RhebL1 (T-13) is recommended for detection of RhebL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RhebL1 (T-13) is also recommended for detection of RhebL1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RhebL1 siRNA (h): sc-95811, RhebL1 siRNA (m): sc-152852, RhebL1 shRNA Plasmid (h): sc-95811-SH, RhebL1 shRNA Plasmid (m): sc-152852-SH, RhebL1 shRNA (h) Lentiviral Particles: sc-95811-V and RhebL1 shRNA (m) Lentiviral Particles: sc-152852-V.

Molecular Weight of RhebL1 isoform 1: 21 kDa.

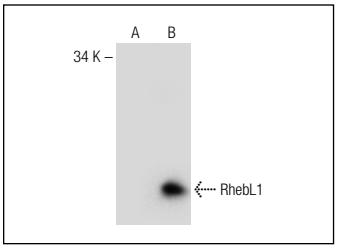
Molecular Weight of RhebL1 isoform 2: 8 kDa.

Positive Controls: RhebL1 (h): 293T Lysate: sc-114548 or RhebL1 (m): 293T Lysate: sc-123115.

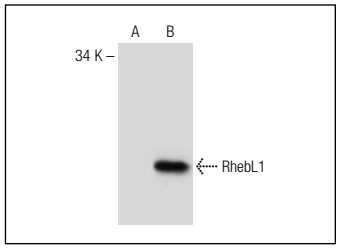
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA




RhebL1 (T-13): sc-161187. Western blot analysis of RhebL1 expression in non-transfected: sc-117752 (**A**) and human RhebL1 transfected: sc-114548 (**B**) 293T whole cell lysates.




RhebL1 (T-13): sc-161187. Western blot analysis of RhebL1 expression in non-transfected: sc-117752 (**A**) and mouse RhebL1 transfected: sc-123115 (**B**) 293T whole cell lysates.

## STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **RhebL1 (A-2): sc-515057** or **RhebL1 (F-5): sc-514095**, our highly recommended monoclonal alternatives to RhebL1 (T-13).