

Rho T2 (T-13): sc-165360

BACKGROUND

The Rho subfamily of Ras-related GTPases controls multiple aspects of cell function, including cytoskeletal rearrangement, nuclear signaling and cell growth. Rho T2 (Ras homolog gene family, member T2), also known as ARHT2, RASL or MIRO-2 (mitochondrial Rho GTPase 2), is a 618 amino acid single-pass type IV membrane protein that functions as a GTPase during mitochondrial trafficking. Existing as two alternatively spliced isoforms, Rho T2 is ubiquitously expressed with highest levels found in pancreas, heart, kidney and skeletal muscle. Rho T2 is thought to influence anterograde transport of mitochondria and associates with kinesin-binding proteins, such as OIP106 and GRIF-1, to link mitochondria to microtubules. Rho T2 contains two EF-hand domains and two miro domains, and is encoded by a gene that maps to human chromosome 16p13.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RHOT2 (human) mapping to 16p13.3; Rhot2 (mouse) mapping to 17 A3.3.

SOURCE

Rho T2 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Rho T2 of human origin.

STORAGE

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

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-165360 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Rho T2 (T-13) is recommended for detection of Rho T2 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); non cross-reactive with Rho T1.

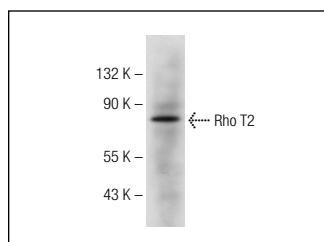
Rho T2 (T-13) is also recommended for detection of Rho T2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Rho T2 siRNA (h): sc-93029, Rho T2 siRNA (m): sc-152857, Rho T2 shRNA Plasmid (h): sc-93029-SH, Rho T2 shRNA Plasmid (m): sc-152857-SH, Rho T2 shRNA (h) Lentiviral Particles: sc-93029-V and Rho T2 shRNA (m) Lentiviral Particles: sc-152857-V.

Molecular Weight of Rho T2 isoforms: 68/23 kDa.

Positive Controls: mouse testis extract: sc-2405.

DATA



Rho T2 (T-13): sc-165360. Western blot analysis of Rho T2 expression in mouse testis tissue extract.

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.