



ARHGAP15 (h): 293T Lysate: sc-115500

BACKGROUND

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. ARHGAP15 (Rho GTPase activating protein 15) is a 475 amino acid peripheral membrane protein that contains one C-terminal Rho-GAP domain, which is highly similar to GAP domains of both ARHGAP9 and ARHGAP12, and one N-terminal pleckstrin homology (PH) domain, which is required for membrane localization. ARHGAP15 also localizes to cytoplasm and is expressed in lung, liver and lymphoid cells. Overexpression of ARHGAP15 results in an increase of actin stress fibers and in cell contraction. Conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, ARHGAP15 functions as a GTPase activator for Rho-type GTPases by converting them to an inactive GDP-bound state. ARHGAP15 also exhibits specificity toward Rac 1 *in vitro*. HeLa cells expressing ARHGAP15 are resistant to phorbol ester treatment, suggesting that ARHGAP15 is also a regulator of Rac 1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARHGAP15 (human) mapping to 2q22.2.

PRODUCT

ARHGAP15 (h): 293T Lysate represents a lysate of human ARHGAP15 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

ARHGAP15 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ARHGAP15 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.