

ARHGEF37 (D-15): sc-246911

BACKGROUND

Rho GTPases, which play fundamental roles in numerous cellular processes, are initiated by external stimuli that signal through G protein-coupled receptors. ARHGEF37 (Rho guanine nucleotide exchange factor (GEF) 37) is a 675 amino acid protein that contains one BAR domain, one DH (DBL-homology) domain and two SH3 domains. Conserved in chimpanzee, dog, cow, mouse, rat, chicken and zebrafish, ARHGEF37 is encoded by a gene that maps to human chromosome 5q33.1. Chromosome 5 makes up approximately 6% of the human genome and contains 181 million base pairs, which encode 1,000 genes. Chromosome 5 is associated with Cockayne syndrome, familial adenomatous polyposis and Treacher Collins syndrome. Deletion of 5q, or chromosome 5 altogether, is common in myelodysplastic syndrome and acute myelogenous leukemias.

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CHROMOSOMAL LOCATION

Genetic locus: ARHGEF37 (human) mapping to 5q33.1; Arhgef37 (mouse) mapping to 18 E1.

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.

SOURCE

ARHGEF37 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ARHGEF37 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-246911 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARHGEF37 (D-15) is recommended for detection of ARHGEF37 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for ARHGEF37 siRNA (h): sc-91898, ARHGEF37 siRNA (m): sc-140320, ARHGEF37 shRNA Plasmid (h): sc-91898-SH, ARHGEF37 shRNA Plasmid (m): sc-140320-SH, ARHGEF37 shRNA (h) Lentiviral Particles: sc-91898-V and ARHGEF37 shRNA (m) Lentiviral Particles: sc-140320-V.

Molecular Weight of ARHGEF37: 76 kDa.

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) 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.

PROTOCOLS

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