

# ARHGAP24 (E-17): sc-249963

## BACKGROUND

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in down regulation of their active form. ARHGAP24, also designated p73RhoGAP, RC-GAP72 or FILGAP, is a 748 amino acid Rho GTPase activating protein implicated in cell polarity, cell morphology and cytoskeletal organization. ARHGAP24 exhibits differential expression as isoform 1 is widely expressed, with highest levels observed in kidney, while isoform 2 is primarily expressed in endothelial cells and has been shown to participate in the modulation of angiogenesis. The N-termini of ARHGAP22 and ARHGAP24 share significant amino acid sequence identity.

## REFERENCES

1. Katoh, M. and Katoh, M. 2004. Identification and characterization of ARHGAP24 and ARHGAP25 genes in silico. *Int. J. Mol. Med.* 14: 333-338.
2. Su, Z.J., Hahn, C.N., Goodall, G.J., Reck, N.M., Leske, A.F., Davy, A., Kremmidiotis, G., Vadas, M.A. and Gamble, J.R. 2004. A vascular cell-restricted RhoGAP, p73RhoGAP, is a key regulator of angiogenesis. *Proc. Natl. Acad. Sci. USA* 101: 12212-12217.
3. Lavelin, I. and Geiger, B. 2005. Characterization of a novel GTPase-activating protein associated with focal adhesions and the actin cytoskeleton. *J. Biol. Chem.* 280: 7178-7185.
4. Ohta, Y., Hartwig, J.H. and Stossel, T.P. 2006. FilGAP, a Rho- and ROCK-regulated GAP for Rac binds filamin A to control actin remodelling. *Nat. Cell Biol.* 8: 803-814.
5. Online Mendelian Inheritance in Man, OMIM™. 2006. Johns Hopkins University, Baltimore, MD. MIM Number: 610585. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: ARHGAP24 (mouse) mapping to 5 E5.

## SOURCE

ARHGAP24 (E-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ARHGAP24 of mouse 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-249963 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

ARHGAP24 (E-17) is recommended for detection of ARHGAP24 of mouse 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); non cross-reactive with other ARHGAP family members.

Suitable for use as control antibody for ARHGAP24 siRNA (m): sc-141211, ARHGAP24 shRNA Plasmid (m): sc-141211-SH and ARHGAP24 shRNA (m) Lentiviral Particles: sc-141211-V.

Molecular Weight of ARHGAP24: 84 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.

## RESEARCH USE

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