

ARHGAP8 (N-16): sc-86300

BACKGROUND

ARHGAP8 (Rho GTPase activating protein 8), also known as PP610 or BPGAP1, is a 464 amino acid protein that contains one Rho GAP domain and one CRAL-TRIO domain. Expressed at high levels in placenta and kidney, and at lower levels in testis, stomach, colon, small intestine and skeletal muscle, ARHGAP8 functions as a negative regulator of Rho-type GTPases, specifically catalyzing the conversion of the target GTPase to an inactive, GDP-bound state. Via its catalytic activity, ARHGAP8 is thought to play a role in signaling pathways and cytoskeletal changes throughout the cell. ARHGAP8 is overexpressed in colorectal and breast tumors, suggesting a role for ARHGAP8 in carcinogenesis. Human ARHGAP8 shares 80% homology with its mouse counterpart, suggesting a conserved role between species. Multiple isoforms of ARHGAP8 exist due to alternative splicing events.

REFERENCES

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: ARHGAP8 (human) mapping to 22q13.31; Arhgap8 (mouse) mapping to 15 E2.

SOURCE

ARHGAP8 (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of ARHGAP8 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86300 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARHGAP8 (N-16) is recommended for detection of ARHGAP8 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); non cross-reactive with family member ARHGAP28.

ARHGAP8 (N-16) is also recommended for detection of ARHGAP8 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ARHGAP8 siRNA (m): sc-141219, ARHGAP8 shRNA Plasmid (m): sc-141219-SH and ARHGAP8 shRNA (m) Lentiviral Particles: sc-141219-V.

Molecular Weight of ARHGAP8: 54 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.