RASSF10 (S-17): sc-243928



The Power to Question

BACKGROUND

Activated Ras proteins may induce senescence, apoptosis and terminal differentiation, though they are often associated with stimulating growth and transformation. Members of the RASSF family contain a highly conserved Ras association domain (RalGDS/AF-6 or RA) and function as Ras effectors. RASSFs are implicated in various cellular mechanisms including cell cycle control and microtubule stabilization. Several members of the RASSF family may function as tumor suppressors. RASSF10 (Ras association (RalGDS/AF-6) domain family (N-terminal) member 10) is an evolutionarily conserved member of the N-terminal RASSF family which is also comprised of RASSF7, PAMCI (or RASSF9) and RASSF8. RASSF10 contains an N-terminal RA domain and is believed to participate in the Ras signaling pathway. It is suggested that RASSF10 may have a potential role in leukemia. RASSF10 exists as two isoforms due to alternative splicing events.

REFERENCES

- Vos, M.D. and Clark, G.J. 2006. RASSF family proteins and Ras transformation. Methods Enzymol. 407: 311-322.
- van der Weyden, L. and Adams, D.J. 2007. The Ras-association domain family (RASSF) members and their role in human tumourigenesis. Biochim. Biophys. Acta 1776: 58-85.
- Ikeda, M., et al. 2007. Ras-association domain family protein 6 induces apoptosis via both caspase-dependent and caspase-independent pathways. Exp. Cell Res. 313: 1484-1495.
- 4. Allen, N.P., et al. 2007. RASSF6 is a novel member of the RASSF family of tumor suppressors. Oncogene 26: 6203-6211.
- Imai, T., et al. 2008. Epigenetic inactivation of RASSF2 in oral squamous cell carcinoma. Cancer Sci. 99: 958-966.
- Sherwood, V., et al. 2008. RASSF7 is a member of a new family of RAS association domain-containing proteins and is required for completing mitosis. Mol. Biol. Cell 19: 1772-1782.
- 7. Avruch, J., et al. 2009. RASSF family of tumor suppressor polypeptides. J. Biol. Chem. 284: 11001-11005.
- 8. Hesson, L.B., et al. 2009. The novel RASSF6 and RASSF10 candidate tumour suppressor genes are frequently epigenetically inactivated in childhood leukaemias. Mol. Cancer 8: 42.
- Richter, A.M., et al. 2009. The RASSF proteins in cancer; from epigenetic silencing to functional characterization. Biochim. Biophys. Acta 1796: 114-128.

CHROMOSOMAL LOCATION

Genetic locus: RASSF10 (human) mapping to 11p15.2; Rassf10 (mouse) mapping to 7 F1.

SOURCE

RASSF10 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RASSF10 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-243928 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RASSF10 (S-17) is recommended for detection of RASSF10 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).

RASSF10 (S-17) is also recommended for detection of RASSF10 in additional species, including canine and porcine.

Suitable for use as control antibody for RASSF10 siRNA (m): sc-152715, RASSF10 shRNA Plasmid (m): sc-152715-SH and RASSF10 shRNA (m) Lentiviral Particles: sc-152715-V.

Molecular Weight of RASSF10: 57 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.

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.

PROTOCOLS

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com