

# RASSF8 (N-19): sc-82346

## BACKGROUND

RASSF8 (Ras association (RalGDS/AF-6 or RA) domain (N-terminal) family member 8), also known as HoJ-1 (carcinoma-associated protein HoJ-1), is an evolutionarily conserved member of the N-terminal RASSF family which is also comprised of RASSF7, PAMCI (or RASSF9) and RASSF10. RASSF8 contains an N-terminal RA domain and is believed to participate in the Ras signaling pathway. A reciprocal chromosomal translocation involving the genes encoding RASSF8 and Fibulin-1 is associated with a complex form of synpolydactyly, a condition in which there are typically more than five digits on a hand or foot and patients exhibit webbing or fusion of fingers and toes. In addition, RASSF8 is capable of acting as a tumor suppressor in lung cancer, as is suggested by the ectopic expression of RASSF8 inhibiting anchorage-independent growth. This implies that the loss of functional RASSF8 may be implicated in the development of lung cancer.

## REFERENCES

1. Debeer, P., Schoenmakers, E.F., Twal, W.O., Argraves, W.S., De Smet, L., Fryns, J.P. and Van De Ven, W.J. 2002. The fibulin-1 gene (FBLN1) is disrupted in a t(12;22) associated with a complex type of synpolydactyly. *J. Med. Genet.* 39: 98-104.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608180. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Falvella, F.S., Manenti, G., Spinola, M., Pignatiello, C., Conti, B., Pastorino, U. and Dragani, T.A. 2006. Identification of RASSF8 as a candidate lung tumor suppressor gene. *Oncogene* 25: 3934-3938.
4. Falvella, F.S., Spinola, M., Manenti, G., Conti, B., Pastorino, U., Skaug, V., Haugen, A. and Dragani, T.A. 2007. Common polymorphisms in D12S1034 flanking genes RASSF8 and BHLHB3 are not associated with lung adenocarcinoma risk. *Lung Cancer* 56: 1-7.
5. Sherwood, V., Manbodh, R., Sheppard, C. and Chalmers, A.D. 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.

## CHROMOSOMAL LOCATION

Genetic locus: RASSF8 (human) mapping to 12p12.1; Rassf8 (mouse) mapping to 6 G3.

## SOURCE

RASSF8 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RASSF8 of human origin.

## 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.

## 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-82346 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RASSF8 (N-19) is recommended for detection of RASSF8 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 other RASSF family members.

RASSF8 (N-19) is also recommended for detection of RASSF8 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for RASSF8 siRNA (h): sc-76357, RASSF8 siRNA (m): sc-76358, RASSF8 shRNA Plasmid (h): sc-76357-SH, RASSF8 shRNA Plasmid (m): sc-76358-SH, RASSF8 shRNA (h) Lentiviral Particles: sc-76357-V and RASSF8 shRNA (m) Lentiviral Particles: sc-76358-V.

Molecular Weight of RASSF8: 48 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## 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.