

# RASL11B (P-19): sc-12158

## BACKGROUND

RASL11B (Ras-like, family 11, member B) is a widely expressed protein with highest levels of expression in placenta and primary macrophages. RASL11B is a Ras-related GTPase and belongs to a Ras subfamily of potential tumor suppressors. Although it shares a high degree of similarity with Ras proteins, RASL11B lacks the characteristic prenylation sites of Ras proteins. Members of the Ras superfamily of small molecular weight GTPases play diverse and critical roles in mediating cellular responses to extracellular stimuli, including mitogenesis, cytoskeletal maintenance and rearrangement, and integrin activation. RASL11B is believed to localize to the cytoplasm and, as is suggested by its TGF $\beta$ 1-induced expression, may participate in TGF $\beta$ 1-regulated developmental processes. In addition, RASL11B may contribute to conditions such as inflammation, arteriosclerosis and cancer.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RASL11B (human) mapping to 4q12, RASL11A (human) mapping to 13q12.2; Ras11b (mouse) mapping to 5 C3.3, Ras11a (mouse) mapping to 5 G3.

## SOURCE

RASL11B (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RASL11B of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-12160 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RASL11B (P-19) is recommended for detection of RASL11B and RASL11A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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).

RASL11B (P-19) is also recommended for detection of RASL11B and RASL11A in additional species, including equine, canine, bovine, porcine and avian.

Molecular Weight of RASL11B: 27 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or JAR cell lysate: sc-2276.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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<sup>™</sup> 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](http://www.scbt.com) or our catalog for detailed protocols and support products.