

Integrin 9 (N-19): sc-68569

BACKGROUND

Integrin $\alpha 9$ (Integrin α RLC) is a 1,035 amino acid protein encoded by the human gene ITGA9. Integrin $\alpha 9$ belongs to the integrin α chain family and contains seven FG-GAP repeats. Integrins are a large family of cell surface glycoproteins that mediate cell-cell adhesion and cell-matrix adhesion. They are heterodimers composed of an α and a β subunit bound noncovalently to each other. The α subunits contain a large N-terminal extracellular domain with seven conserved repeats of putative metal binding domains, a trans-membrane segment, and a short C-terminal cytoplasmic tail. Integrin $\alpha 9$ is single-pass type I membrane protein found in airway epithelium, the basal layer of squamous epithelium, smooth muscle, skeletal muscle and hepatocytes as a heterodimer of an α and a β subunit.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ITGA9 (human) mapping to 3p22.2; Itga9 (mouse) mapping to 9 F3.

STORAGE

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

SOURCE

Integrin $\alpha 9$ (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of Integrin $\alpha 9$ of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-68569 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Integrin $\alpha 9$ (N-19) is recommended for detection of Integrin $\alpha 9$ 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).

Integrin $\alpha 9$ (N-19) is also recommended for detection of Integrin $\alpha 9$ in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Integrin $\alpha 9$ siRNA (h): sc-75340, Integrin $\alpha 9$ siRNA (m): sc-75341, Integrin $\alpha 9$ shRNA Plasmid (h): sc-75340-SH, Integrin $\alpha 9$ shRNA Plasmid (m): sc-75341-SH, Integrin $\alpha 9$ shRNA (h) Lentiviral Particles: sc-75340-V and Integrin $\alpha 9$ shRNA (m) Lentiviral Particles: sc-75341-V.

Molecular Weight of Integrin $\alpha 9$: 115 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.

PROTOCOLS

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