

Integrin α 9 (H-198): sc-68864

BACKGROUND

Integrin α 9 (Integrin α 9) is a 1,035 amino acid protein encoded by the human gene ITGA9. Integrin α 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 α 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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RESEARCH USE

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

CHROMOSOMAL LOCATION

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

SOURCE

Integrin α 9 (H-198) is a rabbit polyclonal antibody raised against amino acids 783-980 mapping near the C-terminus of Integrin α 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.

APPLICATIONS

Integrin α 9 (H-198) is recommended for detection of Integrin α 9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

Integrin α 9 (H-198) is also recommended for detection of Integrin α 9 in additional species, including equine, canine, bovine and porcine.

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

Molecular Weight of Integrin α 9: 115 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.