

Scratch1 (P-16): sc-87428

BACKGROUND

The Snail family of developmental regulatory proteins is a group of widely conserved zinc finger transcription factors that are involved in morphogenesis, cell division and cell survival. Scratch1, also known as SCRT, SCRT1, transcriptional repressor scratch 1 or scratch homolog 1 zinc finger protein, is a 348 amino acid nuclear protein that is specifically expressed in brain. Scratch1 belongs to the Snail family of C₂H₂-type zinc finger transcription factors and contains five C₂H₂-type zinc fingers. Considered a neural-specific transcriptional repressor, Scratch1 binds to E-box domains and may promote neural differentiation. It is suggested that Scratch1 may be involved in cancers with neuroendocrine features.

REFERENCES

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4. Katoh, M. and Katoh, M. 2003. Identification and characterization of human SNAIL3 (SNAI3) gene in silico. *Int. J. Mol. Med.* 11: 383-388.
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CHROMOSOMAL LOCATION

Genetic locus: SCRT1 (human) mapping to 8q24.3; Scrt1 (mouse) mapping to 15 D3.

SOURCE

Scratch1 (P-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Scratch1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87428 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-87428 X, 100 µg/0.1 ml.

APPLICATIONS

Scratch1 (P-16) is recommended for detection of Scratch1 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).

Scratch1 (P-16) is also recommended for detection of Scratch1 in additional species, including bovine and porcine.

Suitable for use as control antibody for Scratch1 siRNA (h): sc-77875, Scratch1 siRNA (m): sc-153269, Scratch1 shRNA Plasmid (h): sc-77875-SH, Scratch1 shRNA Plasmid (m): sc-153269-SH, Scratch1 shRNA (h) Lentiviral Particles: sc-77875-V and Scratch1 shRNA (m) Lentiviral Particles: sc-153269-V.

Scratch1 (P-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Scratch1: 36 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) 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.

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.