SSAT (N-12): sc-47428



The Power to Question

BACKGROUND

Polyamines are required for optimal growth and function of cells. Regulation of their cellular homeostasis is therefore tightly controlled. The key regulatory enzyme for polyamine catabolism is the spermidine/spermine N(1)-acetyl-transferase (SSAT). Depletion of cellular polyamines has been associated with inhibition of growth and programmed cell death. SSAT first acetylates spermidine and spermine, which then are oxidized by polyamine oxidase to produce putrescine and spermidine, respectively. SSAT has been shown to suppress tumor outgrowth and be a potential target for therapeutic purposes.

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CHROMOSOMAL LOCATION

Genetic locus: SAT (human) mapping to Xp22.1; Sat (mouse) mapping to X F3-F4.

SOURCE

SSAT (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SSAT of human origin.

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-47428 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SSAT (N-12) is recommended for detection of SSAT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for SSAT siRNA (h): sc-61616 and SSAT siRNA (m): sc-61617.

Molecular Weight of SSAT: 20 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.

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.

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