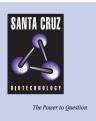
SANTA CRUZ BIOTECHNOLOGY, INC.

Stannin (C-12): sc-47429



BACKGROUND

Stannin, also designated Snn, is a membrane-bound protein localized primarily to mitochondria and vesicular organelles, and is involved in the cytotoxic response to organotins. Stannin, which contains a transmembrane domain and a CXC metal binding motif, is localized to tissues with trimethyltin (TMT) sensitivity, such as lung, kidney, spleen, immune system and the central nervous system. Stannin is capable of dealkylating organotin compounds, which may mediate selective alkytin toxicity. Stannin is also thought to detect mitochondrial damage and, through cross-talk with nuclear compartments, mediate growth and apoptosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SNN (human) mapping to 16p13; Snn (mouse) mapping to 16 A2.

SOURCE

Stannin (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Stannin of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-47429 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Stannin (C-12) is recommended for detection of Stannin of human and, to a lesser extent, mouse 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).

Suitable for use as control antibody for Stannin siRNA (h): sc-61618.

Molecular Weight of Stannin: 10 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) Immunofluo-rescence: use 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.