SANTA CRUZ BIOTECHNOLOGY, INC.

STAC (N-15): sc-99644

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The Power to Question

BACKGROUND

STAC (SH3 and cysteine rich domain-containing protein), also known as STAC1, is a 402 amino acid protein that contains one SH3 (Src homology 3) domain and one cysteine-rich domain (CRD). Expressed in brain, STAC is a neuron-specific protein that localizes to the cytoplasm and, based on the frequent involvement of SH3 and CRD domains in signal transduction, is believed to play a role in neuron-specific signal transduction. In addition, STAC may be involved in protecting cells from apoptosis. Due to its neuron-specific expression and putative role in signal transduction, STAC may be implicated in a variety of hereditary neurological diseases.

REFERENCES

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3. Petek, E., Emberger, W., Kroisel, P.M. and Wagner, K. 1999. Assignment of STAC to human chromosome band 3p22.3 between D3S3718 and D3S1611. Cytogenet. Cell Genet. 84: 184-185.
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CHROMOSOMAL LOCATION

Genetic locus: STAC (human) mapping to 3p22.3.

SOURCE

STAC (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of STAC 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-99644 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

STAC (N-15) is recommended for detection of STAC of 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); non cross-reactive with family members STAC2 or STAC3.

STAC (N-15) is also recommended for detection of STAC in additional species, including equine and canine.

Suitable for use as control antibody for STAC siRNA (h): sc-78015, STAC shRNA Plasmid (h): sc-78015-SH and STAC shRNA (h) Lentiviral Particles: sc-78015-V.

Molecular Weight of STAC: 45 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

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.