SANTA CRUZ BIOTECHNOLOGY, INC.

α-SNAP (h): 293T Lysate: sc-114765

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Syntaxins were originally thought to be docking proteins, but have more recently been categorized as anchoring proteins that anchor themselves to the cytoplasmic surfaces of cellular membranes. Syntaxins have been shown to bind to various proteins involved in exocytosis, including VAMPs (vesicle-associated membrane proteins), NSF (N-ethylmaleimide-sensitive factor), SNAP 25 (synaptosomal-associated protein of 25kDa), SNAPs (soluble NSF attachment proteins) and Synaptotagmin. VAMPs (also designated synaptobrevins), including VAMP-1 and VAMP-2, and Synaptotagmin, a protein that may function as an inhibitor of exocytosis, are vesicular proteins. SNAPs, including α-SNAP and γ-SNAP, are cytoplasmic proteins that bind to a membrane receptor complex composed of VAMP, SNAP 25 and Syntaxin. SNAPs mediate the membrane binding of NSF, which is essential for membrane fusion reactions. An additional protein, designated synaptophysin, may regulate exocytosis by competing with SNAP 25 and Syntaxins for VAMP binding.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NAPA (human) mapping to 19q13.32.

PRODUCT

α-SNAP (h): 293T Lysate represents a lysate of human α-SNAP transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

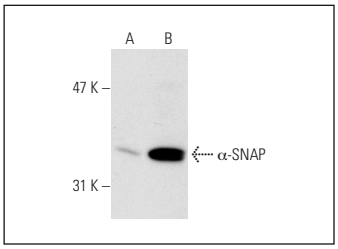
APPLICATIONS

α-SNAP (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive α-SNAP antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

α/β SNAP (16D1): sc-65386 is recommended as a positive control antibody for Western Blot analysis of enhanced human α-SNAP expression in α-SNAP transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



α/β SNAP (16D1): sc-65386. Western blot analysis of α-SNAP expression in non-transfected: sc-117752 (**A**) and human α-SNAP transfected: sc-114765 (**B**) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.