SANTA CRUZ BIOTECHNOLOGY, INC.

SNX6 (N-19): sc-8679

BACKGROUND

Two related proteins, TRAF1 and TRAF2 (TNF receptor-associated factors 1 and 2, respectively), form a heterodimeric complex that associates with the cytoplasmic domain of the tumor necrosis factor (TNF) receptor type 2. A third member of this family, TRAF3 (also designated CD40bp or CRAF1) associates with the cytoplasmic domain of CD40. Additional members of the TRAF/CRAF family of signaling intermediates include TRAF4 (also designated CART1), TRAF5 and TRAF6. TRAF4 associated factor 2 (TRAF4-AF2), also designated sorting nexin 6 (SNX6), is a member of the sorting nexin family of molecules, which are widely expressed and associate with various receptors.

REFERENCES

1. Rothe, M., et al. 1994. A novel family of putative signal transducers associated with the cytoplasmic domain of the 75 kDa tumor necrosis factor receptor. Cell 78: 681-692.
2. Cheng, G., et al. 1995. Involvement of CRAF1, a relative of TRAF, in CD40 signaling. Science 267: 1494-1498.
3. Tomasetto, C., et al. 1995. Identification of four novel human genes amplified and overexpressed in breast carcinoma and localized to the q11-q21.3 region of chromosome 17. Genomics 28: 367-376.

CHROMOSOMAL LOCATION

Genetic locus: SNX6 (human) mapping to 14q13.1, SNX5 (human) mapping to 20q11; Snx6 (mouse) mapping to 12 C1, Snx6 (mouse) mapping to 2 H1.

SOURCE

SNX6 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of SNX6 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-8679 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SNX6 (N-19) is recommended for detection of SNX6 and, to a lesser extent, SNX5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SNX6 (N-19) is also recommended for detection of SNX6 and, to a lesser extent, SNX5 in additional species, including canine, bovine and avian.

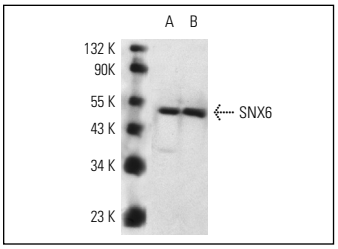
Molecular Weight of SNX6: 47 kDa.

Positive Controls: LADMAC whole cell lysate: sc-364189, Hep G2 cell lysate: sc-2227 or A549 cell lysate: sc-2413.

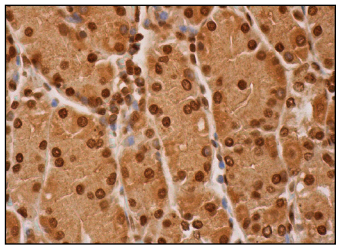
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



SNX6 (N-19): sc-8679. Western blot analysis of SNX6 expression in A549 (**A**) and LADMAC (**B**) whole cell lysates.



SNX6 (N-19): sc-8679. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lower stomach tissue showing cytoplasmic and nuclear staining of glandular cells.

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.