SANTA CRUZ BIOTECHNOLOGY, INC.

SNX6 (D-1): sc-365795

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 membersof 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 receptor.

REFERENCES

1. Rothe, M., Wong, S.C., Henzel, W.J. and Goeddel, D.V. 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., Cleary, A.M., Ye, Z.S., Hong, D.I., Lederman, S. and Baltimore, D. 1995. Involvement of CRAF1, a relative of TRAF, in CD40 signaling. Science 267: 1494-1498.
3. Tomasetto, C., Regnier, C., Moog-Lutz, C., Mattei, M.G., Chenard, M.P., Lidereau, R., Basset, P. and Rio, M.C. 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.
4. Cao, Z., Xiong, J., Takeuchi, M., Kurama, T. and Goeddel, D.V. 1996. TRAF6 is a signal transducer for interleukin-1. Nature 383: 443-446.
5. Mizushima, S., Fujita, M., Ishida, T., Azuma, S., Kato, K., Hirai, M., Otsuka, M., Yamamoto, T. and Inoue, J. 1998. Cloning and characterization of a cDNA encoding the human homolog of tumor necrosis factor receptor-associated factor 5 (TRAF5). Gene 207: 135-140.
6. Haft, C.R., de la Luz Sierra, M., Barr, V.A., Haft, D.H. and Taylor, S.I. 1998. Identification of a family of sorting nexin molecules and characterization of their association with receptors. Mol. Cell. Biol. 18: 7278-7287.

CHROMOSOMAL LOCATION

Genetic locus: SNX6 (human) mapping to 14q13.1; Snx6 (mouse) mapping to 12 C1.

SOURCE

SNX6 (D-1) is a mouse monoclonal antibody raised against amino acids 1-40 mapping at the N-terminus of SNX6 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

SNX6 (D-1) is recommended for detection of SNX6 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SNX6 (D-1) is also recommended for detection of SNX6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SNX6 siRNA (h): sc-41357, SNX6 siRNA (m): sc-41358, SNX6 shRNA Plasmid (h): sc-41357-SH, SNX6 shRNA Plasmid (m): sc-41358-SH, SNX6 shRNA (h) Lentiviral Particles: sc-41357-V and SNX6 shRNA (m) Lentiviral Particles: sc-41358-V.

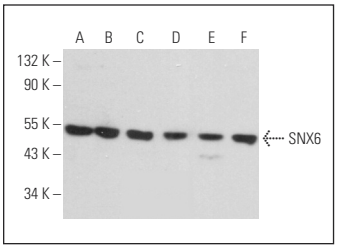
Molecular Weight of SNX6: 47 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

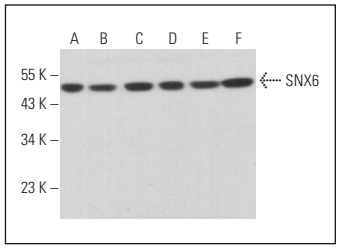
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



SNX6 (D-1): sc-365795. Western blot analysis of SNX6 expression in Hep G2 (**A**), HEK293 (**B**), A549 (**C**), HeLa (**D**), Jurkat (**E**) and K-562 (**F**) whole cell lysates.



SNX6 (D-1): sc-365795. Western blot analysis of SNX6 expression in WI-38 (**A**), AMJ2-C8 (**B**), c4 (**C**), Neuro-2A (**D**), C6 (**E**) and AT3B-1 (**F**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Markworth, R., Dambeck, V., Steinbeck, L.M., Koufali, A., Bues, B., Dankovich, T.M., Wichmann, C. and Burk, K. 2021. Tubular microdomains of Rab7-positive endosomes retrieve TrkA, a mechanism disrupted in Charcot-Marie-Tooth disease 2B. J. Cell Sci. 134: jcs258559.

RESEARCH USE

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