

SNX10 (C-15): sc-104655

BACKGROUND

Sorting nexin (SNX) proteins are members of a large family of hydrophilic PX (phospholipid-binding motif) domain-containing proteins that interact with a variety of receptor types. SNXs are widely expressed, although the tissue distribution of each SNX mRNA varies. The ability of SNXs to bind specific phospholipids, as well as their tendency to form protein-protein complexes, suggests a role for these proteins in cellular membrane trafficking and protein sorting. SNXs may also function specifically in pro-degradative sorting, internalization, endosomal recycling or simply in endosomal sorting. SNX10 (sorting nexin-10) is a 201 amino acid protein that contains one phox domain and belongs to the SNX family. Like other members of the SNX family, SNX10 is thought to play a role in intracellular trafficking events throughout the cell.

REFERENCES

1. Teasdale, R.D., et al. 2001. A large family of endosome-localized proteins related to sorting nexin 1. *Biochem. J.* 358: 7-16.
2. Worby, C.A., et al. 2002. Sorting out the cellular functions of sorting nexins. *Nat. Rev. Mol. Cell Biol.* 3: 919-931.
3. Qin, B., et al. 2006. Sorting nexin 10 induces giant vacuoles in mammalian cells. *J. Biol. Chem.* 281: 36891-36896.
4. Kerr, M.C., et al. 2006. Visualisation of macropinosome maturation by the recruitment of sorting nexins. *J. Cell Sci.* 119: 3967-3980.
5. Jürgens, G., et al. 2007. The high road and the low road: trafficking choices in plants. *Cell* 130: 977-979.
6. Verges, M. 2007. Retromer and sorting nexins in development. *Front. Biosci.* 12: 3825-3851.
7. Alto, N.M., et al. 2007. The type III effector EspF coordinates membrane trafficking by the spatiotemporal activation of two eukaryotic signaling pathways. *J. Cell Biol.* 178: 1265-1278.
8. Skanland, S.S., et al. 2007. Phosphoinositide-regulated retrograde transport of ricin: crosstalk between hVps34 and sorting nexins. *Traffic* 8: 297-309.

CHROMOSOMAL LOCATION

Genetic locus: SNX10 (human) mapping to 7p15.2; Snx10 (mouse) mapping to 6 B3.

SOURCE

SNX10 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SNX10 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-104655 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

SNX10 (C-15) is recommended for detection of SNX10 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other SNX family members.

Suitable for use as control antibody for SNX10 siRNA (h): sc-89345, SNX10 siRNA (m): sc-106556, SNX10 shRNA Plasmid (h): sc-89345-SH, SNX10 shRNA Plasmid (m): sc-106556-SH, SNX10 shRNA (h) Lentiviral Particles: sc-89345-V and SNX10 shRNA (m) Lentiviral Particles: sc-106556-V.

Molecular Weight (predicted) of SNX10: 24 kDa.

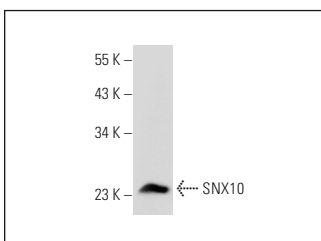
Molecular Weight (observed) of SNX10: 27 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or 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 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.

DATA



SNX10 (C-15): sc-104655. Western blot analysis of SNX10 expression in Hep G2 whole cell lysate.

STORAGE

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



Try **SNX10 (1G5): sc-293380**, our highly recommended monoclonal alternative to SNX10 (C-15).