

SNX8 (D-17): sc-49139

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. SNXs partially associate with cellular membranes, despite their hydrophilic nature. SNX8 is an ortholog of a yeast protein.

REFERENCES

1. Barr, V.A., Phillips, S.A., Taylor, S.I. and Haft, C.R. 2000. Overexpression of a novel sorting nexin, SNX15, affects endosome morphology and protein trafficking. *Traffic* 1: 904-916.
2. Teasdale, R.D., Loci, D., Houghton, F., Karlsson, L. and Gleeson, P.A. 2001. A large family of endosome-localized proteins related to sorting nexin 1. *Biochem. J.* 358: 7-16.
3. Worby, C.A. and Dixon, J.E. 2002. Sorting out the cellular functions of sorting nexins. *Nat. Rev. Mol. Cell Biol.* 3: 919-931.
4. Carlton, J.G. and Cullen, P.J. 2005. Sorting nexins. *Curr. Biol.* 15: 819-820.
5. Carlton, J., Bujny, M., Rutherford, A. and Cullen, P. 2005. Sorting nexins: unifying trends and new perspectives. *Traffic* 6: 75-82.
6. Jacques, C., Baris, O., Prunier-Mirebeau, D., Savagner, F., Rodien, P., Rohmer, V., Franc, B., Guyetant, S., Malthiery, Y. and Reynier, P. 2005. Two-step differential expression analysis reveals a new set of genes involved in thyroid oncocytic tumors. *J. Clin. Endocrinol. Metab.* 90: 2314-2320.
7. Kerr, M.C., Lindsay, M.R., Luetterforst, R., Hamilton, N., Simpson, F., Parton, R.G., Gleeson, P.A. and Teasdale, R.D. 2006. Visualisation of macropinosome maturation by the recruitment of sorting nexins. *J. Cell Sci.* 119: 3967-3980.

CHROMOSOMAL LOCATION

Genetic locus: SNX8 (human) mapping to 7p22.3; Snx8 (mouse) mapping to 5 G2.

SOURCE

SNX8 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SNX8 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-49139 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-49139 X, 200 µg/0.1 ml.

APPLICATIONS

SNX8 (D-17) is recommended for detection of SNX8 of mouse, rat and 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).

SNX8 (D-17) is also recommended for detection of SNX8 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for SNX8 siRNA (h): sc-61595, SNX8 siRNA (m): sc-61596, SNX8 shRNA Plasmid (h): sc-61595-SH, SNX8 shRNA Plasmid (m): sc-61596-SH, SNX8 shRNA (h) Lentiviral Particles: sc-61595-V and SNX8 shRNA (m) Lentiviral Particles: sc-61596-V.

Molecular Weight of SNX8: 52 kDa.

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) 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.

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.