

# SNX25 (N-12): sc-136897

## 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. SNX25 (sorting nexin 25), also known as SBBI31 or MSTP043, is an 840 amino acid protein suggested to function in several stages of intracellular trafficking. A member of the sorting nexin family, SNX25 contains one PX (phox homology) domain, an RGS domain and one PXA domain.

## REFERENCES

1. 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.
2. Worby, C.A. and Dixon, J.E. 2002. Sorting out the cellular functions of sorting nexins. *Nat. Rev. Mol. Cell Biol.* 3: 919-931.
3. 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.
4. Jürgens, G. and Geldner, N. 2007. The high road and the low road: trafficking choices in plants. *Cell* 130: 977-979.
5. Verges, M. 2007. Retromer and sorting nexins in development. *Front. Biosci.* 12: 3825-3851.
6. Cullen, P.J. 2008. Endosomal sorting and signalling: an emerging role for sorting nexins. *Nat. Rev. Mol. Cell Biol.* 9: 574-582.

## CHROMOSOMAL LOCATION

Genetic locus: SNX25 (human) mapping to 4q35.1; Snx25 (mouse) mapping to 8 B1.1.

## SOURCE

SNX25 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SNX25 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-136897 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

SNX25 (N-12) is recommended for detection of SNX25 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); non cross-reactive with other SNX family members.

SNX25 (N-12) is also recommended for detection of SNX25 in additional species, including canine.

Suitable for use as control antibody for SNX25 siRNA (h): sc-89281, SNX25 siRNA (m): sc-153671, SNX25 shRNA Plasmid (h): sc-89281-SH, SNX25 shRNA Plasmid (m): sc-153671-SH, SNX25 shRNA (h) Lentiviral Particles: sc-89281-V and SNX25 shRNA (m) Lentiviral Particles: sc-153671-V.

Molecular Weight of SNX25: 98 kDa.

Positive Controls: Mouse brain extract: sc-2253 or mouse thyroid extract: sc-2407.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.