

# SNX22 (E-16): sc-165520

## 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. SNX22 (sorting nexin 22) is a 193 amino acid protein that contains one phox domain and belongs to the SNX family. Like other members of the SNX family, SNX22 is thought to play a role in intracellular trafficking events throughout the cell.

## REFERENCES

1. Ponting, C.P. 1996. Novel domains in NADPH oxidase subunits, sorting nexins, and PtdIns 3-kinases: binding partners of SH3 domains? *Protein Sci.* 5: 2353-2357.
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. Carlton, J., Bujny, M., Rutherford, A. and Cullen, P. 2005. Sorting nexins—unifying trends and new perspectives. *Traffic* 6: 75-82.
4. Seet, L.F. and Hong, W. 2006. The Phox (PX) domain proteins and membrane traffic. *Biochim. Biophys. Acta* 1761: 878-896.
5. Song, J., Zhao, K.Q., Newman, C.L., Vinarov, D.A. and Markley, J.L. 2007. Solution structure of human sorting nexin 22. *Protein Sci.* 16: 807-814.
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: SNX22 (human) mapping to 15q22.31; Snx22 (mouse) mapping to 9 C.

## SOURCE

SNX22 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SNX22 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-165520 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.

## PROTOCOLS

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

## APPLICATIONS

SNX22 (E-16) is recommended for detection of SNX22 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.

SNX22 (E-16) is also recommended for detection of SNX22 in additional species, including equine and canine.

Suitable for use as control antibody for SNX22 siRNA (h): sc-90168, SNX22 siRNA (m): sc-153669, SNX22 shRNA Plasmid (h): sc-90168-SH, SNX22 shRNA Plasmid (m): sc-153669-SH, SNX22 shRNA (h) Lentiviral Particles: sc-90168-V and SNX22 shRNA (m) Lentiviral Particles: sc-153669-V.

Molecular Weight of SNX22: 22 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.

## RESEARCH USE

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