

SNX12 (C-12): sc-169382

BACKGROUND

SNX12 (sorting nexin 12) is a 172 amino acid member of the sorting nexin (SNX) family of hydrophilic proteins that interact with a variety of receptors and are involved in intracellular trafficking events. Like other members of the sorting nexin family, SNX12 contains one phox (PX) domain which is a conserved motif that functions in phosphoinositide binding, signal transduction, growth factor receptor degradation and NADPH oxidase activity. Via its PX domain, SNX12 is thought to be involved in multiple stages of intracellular trafficking and endocytosis through membranous compartments. Two isoforms of SNX12 exist due to alternative splicing events.

REFERENCES

- Haft, C.R., et al. 1998. Identification of a family of sorting nexin molecules and characterization of their association with receptors. *Mol. Cell. Biol.* 18: 7278-7287.
- Teasdale, R.D., et al. 2001. A large family of endosome-localized proteins related to sorting nexin 1. *Biochem. J.* 358: 7-16.
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- Carlton, J., et al. 2005. Sorting nexins—unifying trends and new perspectives. *Traffic* 6: 75-82.
- Wesselkamper, S.C., et al. 2006. The role of metallothionein in the pathogenesis of acute lung injury. *Am. J. Respir. Cell Mol. Biol.* 34: 73-82.
- Kerr, M.C., et al. 2006. Visualisation of macropinosome maturation by the recruitment of sorting nexins. *J. Cell Sci.* 119: 3967-3980.

CHROMOSOMAL LOCATION

Genetic locus: SNX12 (human) mapping to Xq13.1; Snx12 (mouse) mapping to X C3.

SOURCE

SNX12 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SNX12 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-169382 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 or our catalog for detailed protocols and support products.

APPLICATIONS

SNX12 (C-12) is recommended for detection of SNX12 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 SNX12 siRNA (h): sc-90944, SNX12 siRNA (m): sc-153664, SNX12 shRNA Plasmid (h): sc-90944-SH, SNX12 shRNA Plasmid (m): sc-153664-SH, SNX12 shRNA (h) Lentiviral Particles: sc-90944-V and SNX12 shRNA (m) Lentiviral Particles: sc-153664-V.

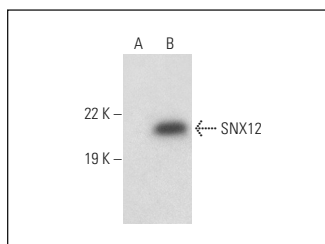
Molecular Weight of SNX12: 20 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SNX12 (m): 293T Lysate: sc-123690 or HL-60 whole cell lysate: sc-2209.

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



SNX12 (C-12): sc-169382. Western blot analysis of SNX12 expression in non-transfected: sc-117752 (A) and mouse SNX12 transfected: sc-123690 (B) 293T whole cell lysates.

RESEARCH USE

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

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Try **SNX12 (42-Y): sc-101308**, our highly recommended monoclonal alternative to SNX12 (C-12).