

SNX20 (G-12): sc-160818

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. SNX20 (sorting nexin 20), also known as SLIC1 (selectin ligand-interactor cytoplasmic 1), is a 316 amino acid sorting protein that cycles PSGL-1 (P-selectin glycoprotein ligand 1) into endosomes. Localizing to nucleus, cytoplasm, cell membrane and endosomes, SNX20 contains one PX (phox homology) domain, exists as four alternatively spliced isoforms and belongs to the sorting nexin family.

REFERENCES

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3. Seet, L.F. and Hong, W. 2006. The Phox (PX) domain proteins and membrane traffic. *Biochim. Biophys. Acta* 1761: 878-896.
4. Kerr, M.C., et al. 2006. Visualisation of macropinosome maturation by the recruitment of sorting nexins. *J. Cell. Sci.* 119: 3967-3980.
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6. Verges, M. 2007. Retromer and sorting nexins in development. *Front. Biosci.* 12: 3825-3851.
7. Schaff, U.Y., et al. 2008. SLIC-1/sorting nexin 20: a novel sorting nexin that directs subcellular distribution of PSGL-1. *Eur. J. Immunol.* 38: 550-564.
8. 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: SNX20 (human) mapping to 16q12.1; Snx20 (mouse) mapping to 8 C3.

SOURCE

SNX20 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SNX20 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-160818 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SNX20 (G-12) is recommended for detection of SNX20 isoform 1 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 isoforms SNX20-2, SNX20-3 or SNX20-4; non cross-reactive with other SNX family members.

SNX20 (G-12) is also recommended for detection of SNX20 isoform 1 in additional species, including porcine.

Suitable for use as control antibody for SNX20 siRNA (h): sc-92991, SNX20 siRNA (m): sc-153594, SNX20 shRNA Plasmid (h): sc-92991-SH, SNX20 shRNA Plasmid (m): sc-153594-SH, SNX20 shRNA (h) Lentiviral Particles: sc-92991-V and SNX20 shRNA (m) Lentiviral Particles: sc-153594-V.

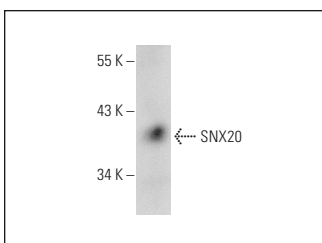
Molecular Weight of SNX20: 36 kDa.

Positive Controls: mouse small intestine extract: sc-364252.

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



SNX20 (G-12): sc-160818. Western blot analysis of SNX20 expression in mouse small intestine tissue extract.

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.