

# SNX19 (B-1): sc-377404

## 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. The SNX19 protein is specifically involved in protein metabolism and is commonly overexpressed in hematologic neoplasms.

## REFERENCES

1. Katzmann, D.J., et al. 2002. Receptor downregulation and multivesicular-body sorting. *Nat. Rev. Mol. Cell Biol.* 3: 893-905.
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.G. and Cullen, P.J. 2005. Sorting nexins. *Curr. Biol.* 15: 819-820.
4. Carlton, J., et al. 2005. Sorting nexins: unifying trends and new perspectives. *Traffic* 6: 75-82.
5. Hu, Y.F., et al. 2005. The IA-2 interactome. *Diabetologia* 48: 2576-2581.
6. Jacques, C., et al. 2005. Two-step differential expression analysis reveals a new set of genes involved in thyroid oncogenic tumors. *J. Clin. Endocrinol. Metab.* 90: 2314-2320.
7. 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: SNX19 (human) mapping to 11q24.3; Snx19 (mouse) mapping to 9 A4.

## SOURCE

SNX19 (B-1) is a mouse monoclonal antibody raised against amino acids 326-625 mapping within an internal region of SNX19 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SNX19 (B-1) is available conjugated to agarose (sc-377404 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377404 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377404 PE), fluorescein (sc-377404 FITC), Alexa Fluor<sup>®</sup> 488 (sc-377404 AF488), Alexa Fluor<sup>®</sup> 546 (sc-377404 AF546), Alexa Fluor<sup>®</sup> 594 (sc-377404 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-377404 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-377404 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-377404 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

SNX19 (B-1) is recommended for detection of SNX19 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SNX19 siRNA (h): sc-61589, SNX19 siRNA (m): sc-61590, SNX19 shRNA Plasmid (h): sc-61589-SH, SNX19 shRNA Plasmid (m): sc-61590-SH, SNX19 shRNA (h) Lentiviral Particles: sc-61589-V and SNX19 shRNA (m) Lentiviral Particles: sc-61590-V.

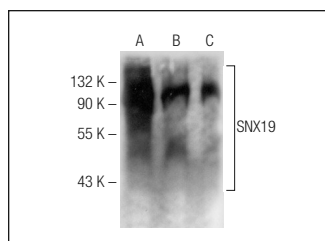
Molecular Weight of SNX19: 109 kDa.

Positive Controls: IB4 whole cell lysate: sc-364780, NAMALWA cell lysate: sc-2234 or Ramos cell lysate: sc-2216.

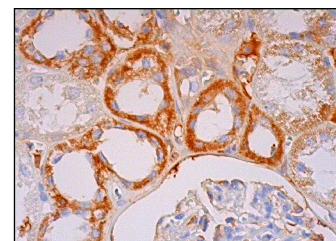
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



SNX19 (B-1): sc-377404. Western blot analysis of SNX19 expression in IB4 (A), Ramos (B) and NAMALWA (C) whole cell lysates.



SNX19 (B-1): sc-377404. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in glomeruli.

## 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.