

SNX1 (H-115): sc-292684

BACKGROUND

Sorting nexin 1 (SNX1) is a member of a large family of hydrophilic proteins that interact with a variety of receptor types and are involved in intracellular trafficking. SNX1 and the related splice variant, SNX1A, bind the epidermal growth factor (EGF) receptor, facilitate its transport to lysosome, and thereby contribute to the degradation of the receptor. SNX2 and SNX4 share a high degree of amino acid similarity with SNX1, as they all contain a characteristic phox homology (PX) domain. These proteins are all partially associated with cellular membranes, and they, likewise, associate with EGF, PDGF and Insulin receptor tyrosine kinases. These nexins are widely expressed and yet have various tissue distribution patterns. Additionally, the sorting nexins can associate with each other and with a variety of other cellular proteins, suggesting that they exist as part of multisubunit complexes. The related protein, SNX3, comprises a distinct subgroup of nexins that share less sequence similarity outside of the PX domain and have dramatically different binding affinities for the tyrosine kinase receptors (2,6).

REFERENCES

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6. Haft, C.R., de la Luz Sierra, M., Barr, V.A., Haft, D.H. and Taylor, S.I. 1998. Identification of a family of sorting nexin molecules and characterization of their association with receptors. *Mol. Cell. Biol.* 18: 7278-7287.

CHROMOSOMAL LOCATION

Genetic locus: SNX1 (human) mapping to 15q22.31; Snx1 (mouse) mapping to 9 C.

SOURCE

SNX1 (H-115) is a rabbit polyclonal antibody raised against amino acids 21-135 mapping near the N-terminus of SNX1 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.

APPLICATIONS

SNX1 (H-115) is recommended for detection of SNX1 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).

SNX1 (H-115) is also recommended for detection of SNX1 in additional species, including equine.

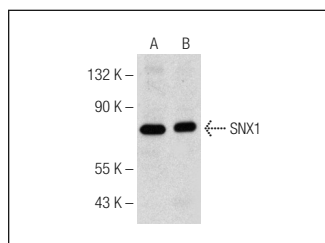
Suitable for use as control antibody for SNX1 siRNA (h): sc-41345, SNX1 siRNA (m): sc-41346, SNX1 shRNA Plasmid (h): sc-41345-SH, SNX1 shRNA Plasmid (m): sc-41346-SH, SNX1 shRNA (h) Lentiviral Particles: sc-41345-V and SNX1 shRNA (m) Lentiviral Particles: sc-41346-V.

Molecular Weight (predicted) of SNX1: 60 kDa.

Molecular Weight (observed) of SNX1: 78 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285, HeLa whole cell lysate: sc-2200 or rat spleen extract: sc-2397.

DATA



SNX1 (H-115): sc-292684. Western blot analysis of SNX1 expression in 293T (A) and MIA PaCa-2 (B) whole cell lysates.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **SNX1 (B-8): sc-376376** or **SNX1 (51): sc-136247**, our highly recommended monoclonal alternatives to SNX1 (H-115).