



Datasheet for ABIN968558

## anti-Sorting Nexin 1 antibody (AA 1-108)



[Go to Product page](#)

3 Images

4 Publications

### Overview

Quantity:	50 µg
Target:	Sorting Nexin 1 (SNX1)
Binding Specificity:	AA 1-108
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Sorting Nexin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

### Product Details

Immunogen:	Human SNX1 aa. 1-108
Clone:	51-SNX1
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li></ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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Target: Sorting Nexin 1 (SNX1)

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Alternative Name: SNX1 ([SNX1 Products](#))

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Background: Biological processes such as transmembrane signaling and receptor mediated endocytosis revolve around the function of cell surface receptors. A network of molecular machinery directs the intracellular trafficking of receptors during their biosynthesis and mediates signaling downstream of receptors. The sorting nexins (SNX1, SNX1A, SNX2, SNX3, and SNX4) are a family of intracellular proteins that are thought to direct the sorting of receptor proteins. The SNX proteins contain a conserved 100 amino acid region termed the phox homology (PX) domain and are part of a family of hydrophilic proteins which includes *S. cerevisiae* proteins that function in protein sorting. SNX1, SNX2, and SNX4 associate predominantly with membranes and bind transmembrane receptors such as those for EGF, PDGF, and insulin. SNX1 directs the EGF receptor to the lysosomes for degradation. SNX2 forms homomeric complexes and heteromeric complexes with SNX1, SNX1A, and SNX4. These complexes are thought to be necessary for efficient protein sorting. Thus, SNX1 and other sorting nexins are thought to play important roles in the specificity of protein trafficking to and from the plasma membrane.

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Molecular Weight: 74 kDa

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## Application Details

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Comment: Related Products: [ABIN967389](#), [ABIN968535](#)

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 250 µg/mL

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Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store undiluted at -20°C.

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## Publications

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- Product cited in: Cozier, Carlton, McGregor, Gleeson, Teasdale, Mellor, Cullen: "The phox homology (PX) domain-dependent, 3-phosphoinositide-mediated association of sorting nexin-1 with an early sorting endosomal compartment is required for its ability to regulate epidermal growth factor receptor degradation." in: **The Journal of biological chemistry**, Vol. 277, Issue 50, pp. 48730-6, (2002) ([PubMed](#)).
- Strehlow, Jelaska, Strehlow, Korn: "A potential role for protease nexin 1 overexpression in the pathogenesis of scleroderma." in: **The Journal of clinical investigation**, Vol. 103, Issue 8, pp. 1179-90, (1999) ([PubMed](#)).
- Haft, de la Luz Sierra, Barr, Haft, Taylor: "Identification of a family of sorting nexin molecules and characterization of their association with receptors." in: **Molecular and cellular biology**, Vol. 18, Issue 12, pp. 7278-87, (1998) ([PubMed](#)).
- Kurten, Cadena, Gill: "Enhanced degradation of EGF receptors by a sorting nexin, SNX1." in: **Science (New York, N.Y.)**, Vol. 272, Issue 5264, pp. 1008-10, (1996) ([PubMed](#)).

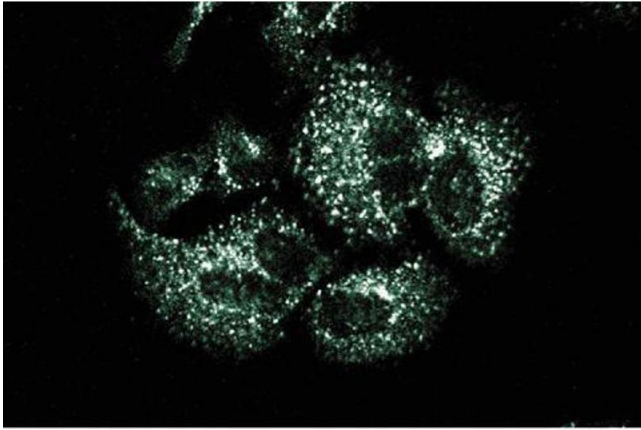
## Images

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### Western Blotting

**Image 1.** Western blot analysis of SNX1 on HeLa lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of SNX1.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of HeLa cells.

**Image 3.**

