Technical Data Sheet

Purified Mouse Anti-SNX2

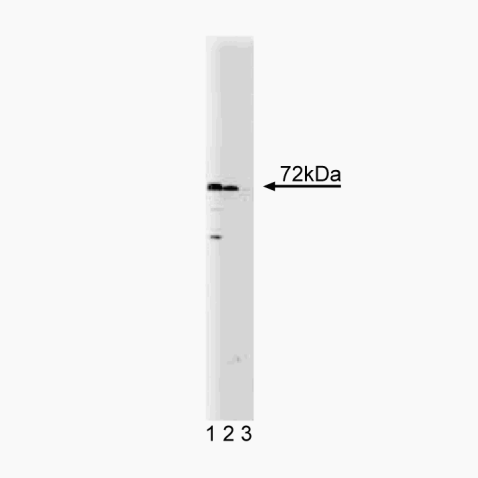
Product Information

Material Number:	**611308**
Alternate Name:	Sorting Nexin-2
Size:	50 µg
Concentration:	250 µg/ml
Clone:	13/SNX2
Immunogen:	Human SNX2 aa. 15-137
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog
Target MW:	72 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

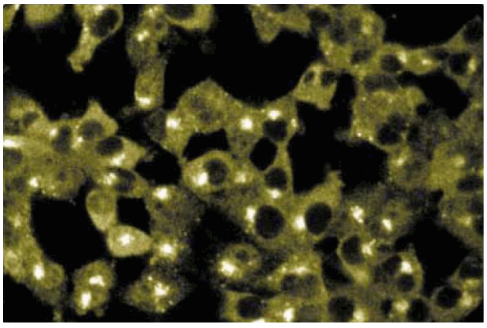
Description

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, SNX2 and other sorting nexins are thought to play important roles in the specificity of protein trafficking to and from the plasma membrane.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of SNX2 on a human endothelial cell lysate. *Lane 1: 1:500, lane 2: 1:1000, lane 3: 1: 2000 dilution of the mouse anti- SNX2 antibody.*



Immunofluorescence staining of ES-2 cells (Human ovary clear cell carcinoma; ATCC CRL-1978).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

BD Biosciences
bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

BD Biosciences

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611450	Human Endothelial Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References

Haft CR, de la Luz Sierra M, Barr VA, Haft DH, Taylor SI. Identification of a family of sorting nexin molecules and characterization of their association with receptors. *Mol Cell Biol.* 1998; 18(12):7278-7287.(Biology)

Kurten RC, Cadena DL, Gill GN. Enhanced degradation of EGF receptors by a sorting nexin, SNX1. *Science.* 1996; 272(5264):1008-1010.(Biology)