

## Anti-SNX1 Rabbit Monoclonal Antibody Catalog # ABO15450

### Specification

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#### Anti-SNX1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	<a href="#">Q13596</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-SNX1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-SNX1 Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 6642

#### Other Names

Sorting nexin-1, SNX1

#### Calculated MW

74 kDa KDa

#### Application Details

WB 1:1000-1:5000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:50

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human SNX1

#### Purification

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

#### Anti-SNX1 Rabbit Monoclonal Antibody - Protein Information

**Name** SNX1

## Function

Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:<a href="http://www.uniprot.org/citations/12198132" target="\_blank">12198132</a>). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity (PubMed:<a href="http://www.uniprot.org/citations/19816406" target="\_blank">19816406</a>, PubMed:<a href="http://www.uniprot.org/citations/23085988" target="\_blank">23085988</a>). Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R, M6PR and SORT1) and Shiginella dysenteria toxin stxB. Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi (PubMed:<a href="http://www.uniprot.org/citations/12198132" target="\_blank">12198132</a>, PubMed:<a href="http://www.uniprot.org/citations/15498486" target="\_blank">15498486</a>, PubMed:<a href="http://www.uniprot.org/citations/17101778" target="\_blank">17101778</a>, PubMed:<a href="http://www.uniprot.org/citations/17550970" target="\_blank">17550970</a>, PubMed:<a href="http://www.uniprot.org/citations/18088323" target="\_blank">18088323</a>, PubMed:<a href="http://www.uniprot.org/citations/21040701" target="\_blank">21040701</a>). Involvement in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R (PubMed:<a href="http://www.uniprot.org/citations/16407403" target="\_blank">16407403</a>, PubMed:<a href="http://www.uniprot.org/citations/20070609" target="\_blank">20070609</a>). Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN (PubMed:<a href="http://www.uniprot.org/citations/20604901" target="\_blank">20604901</a>). Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking (PubMed:<a href="http://www.uniprot.org/citations/23152498" target="\_blank">23152498</a>).

## Cellular Location

Endosome membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein; Cytoplasmic side. Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium. Note=Enriched on tubular elements of the early endosome membrane. Binds preferentially to highly curved membranes enriched in phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:15498486). Colocalized with SORT1 to tubular endosomal membrane structures called endosome-to-TGN transport carriers (ETCs) which are budding from early endosome vacuoles just before maturing into late endosome vacuoles (PubMed:18088323). Colocalizes with DNAJC13 and Shiginella dysenteria toxin stxB on early endosomes (PubMed:19874558) Colocalized with F-actin at the leading edge of lamellipodia in a KALRN-dependent manner (PubMed:20604901).

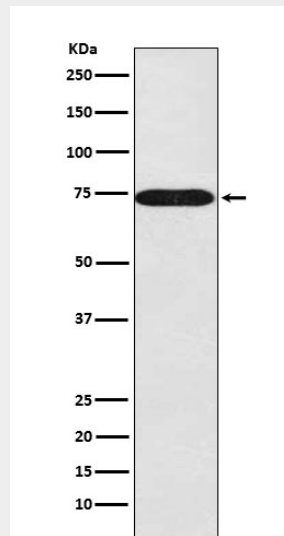
## Anti-SNX1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

### Anti-SNX1 Rabbit Monoclonal Antibody - Images



Western blot analysis of SNX1 expression in 293T cell lysate.