

**SNX3 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16867****Specification**

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**SNX3 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">O60493</a>
Other Accession	<a href="#">8724</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	18762

**SNX3 Antibody - Additional Information****Gene ID** 8724**Other Names**

SNX3, MCOPS8, Sorting nexin 3A, Protein SDP3, SDP3, Sorting nexin-3, Grd19, Sorting nexin 3

**Target/Specificity**

Human SNX3

**Reconstitution & Storage**

PBS, pH 7.4, 0.03% Proclin 300, 50% glycerol. Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

**Precautions**

SNX3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SNX3 Antibody - Protein Information****Name** SNX3 {ECO:0000303|PubMed:30213940, ECO:0000312|HGNC:HGNC:11174}**Function**

Phosphoinositide-binding protein required for multivesicular body formation. Specifically binds phosphatidylinositol 3-phosphate (PtdIns(P3)). Can also bind phosphatidylinositol 4-phosphate (PtdIns(P4)), phosphatidylinositol 5-phosphate (PtdIns(P5)) and phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (By similarity). Plays a role in protein transport between cellular compartments. Together with RAB7A facilitates endosome membrane association of the retromer cargo-selective subcomplex (CSC/VPS). May in part act as component of the SNX3-retromer complex which mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway (PubMed:<a href="http://www.uniprot.org/citations/21725319" target="\_blank">21725319</a>, PubMed:<a href="http://www.uniprot.org/citations/24344282" target="\_blank">24344282</a>, PubMed:<a href="http://www.uniprot.org/citations/30213940" target="\_blank">30213940</a>). Promotes stability and cell surface expression of epithelial

sodium channel (ENAC) subunits SCNN1A and SCNN1G (By similarity). Not involved in EGFR degradation. Involved in the regulation of phagocytosis in dendritic cells possibly by regulating EEA1 recruitment to the nascent phagosomes (PubMed:<a href="http://www.uniprot.org/citations/23237080" target="\_blank">23237080</a>). Involved in iron homeostasis through regulation of endocytic recycling of the transferrin receptor TFRC presumably by delivering the transferrin:transferrin receptor complex to recycling endosomes; the function may involve the CSC retromer subcomplex (By similarity). In the case of Salmonella enterica infection plays a role in maturation of the Salmonella-containing vacuole (SCV) and promotes recruitment of LAMP1 to SCVs (PubMed:<a href="http://www.uniprot.org/citations/20482551" target="\_blank">20482551</a>).

### Cellular Location

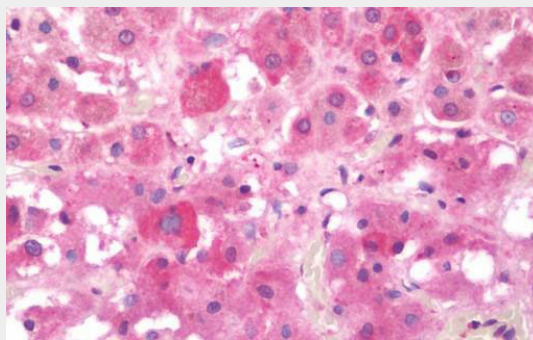
Early endosome. Cytoplasmic vesicle, phagosome. Note=Colocalizes to clathrin-coated endosomal vesicles morphologically distinct from retromer-decorated non-branched endosomal tubule structures (PubMed:21725319) Colocalizes with EEA1 on nascent phagosomes in dendritic cells but competes with EEA1 for binding to phagosomal membrane (PubMed:23237080). In the case of Salmonella enterica infection localizes to Salmonella-containing vacuoles (SCVs) from which SNX3-containing tubules form 30-60 min after infection (PubMed:20482551).

### SNX3 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](#)

### SNX3 Antibody - Images



Anti-SNX3 antibody IHC staining of human adrenal.

### SNX3 Antibody - Background

Phosphoinositide-binding protein required for multivesicular body formation. Specifically binds phosphatidylinositol 3-phosphate (PtdIns(P3)). Also can bind phosphatidylinositol 4-phosphate (PtdIns(P4)), phosphatidylinositol 5-phosphate (PtdIns(P5)) and phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (By similarity). Plays a role in protein transport between cellular compartments. Together with RAB7A facilitates endosome membrane association of the retromer cargo-selective subcomplex (CSC/VPS). May in part act as component of the SNX3-retromer complex which

mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway (PubMed:21725319, PubMed:24344282). Promotes stability and cell surface expression of epithelial sodium channel (ENAC) subunits SCNN1A and SCNN1G (By similarity). Not involved in EGFR degradation. Involved in the regulation of phagocytosis in dendritic cells possibly by regulating EEA1 recruitment to the nascent phagosomes (PubMed:23237080). Involved in iron homeostasis through regulation of endocytic recycling of the transferrin receptor TFRC presumably by delivering the transferrin:transferrin receptor complex to recycling endosomes; the function may involve the CSC retromer subcomplex (By similarity). In the case of *Salmonella enterica* infection plays a role in maturation of the *Salmonella*-containing vacuole (SCV) and promotes recruitment of LAMP1 to SCVs (PubMed:20482551).

### **SNX3 Antibody - References**

- Haft C.R., et al. *Mol. Cell. Biol.* 18:7278-7287(1998).  
Xu Y., et al. *Nat. Cell Biol.* 3:658-666(2001).  
Hayama A., et al. Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Kalinine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.