

**SNX3 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18477c**

**Specification**

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**SNX3 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O60493</a>
Other Accession	<a href="#">Q5U211</a> , <a href="#">Q1RMH8</a> , <a href="#">NP_690040.1</a>
Reactivity	Human
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	78-105

**SNX3 Antibody (Center) - Additional Information**

**Gene ID** 8724

**Other Names**

Sorting nexin-3, Protein SDP3, SNX3

**Target/Specificity**

This SNX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-105 amino acids from the Central region of human SNX3.

**Dilution**

WB~~1:1000

IHC-P~~1:25

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**SNX3 Antibody (Center) - 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:[21725319](#), PubMed:[24344282](#), PubMed:[30213940](#)). 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 TFR1 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](#)).

### Cellular Location

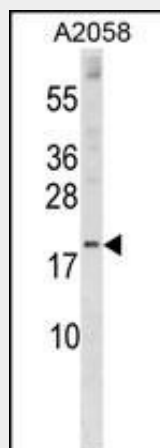
Early endosome. Cytoplasmic vesicle, phagosome. Note=Colocalizes to clathrin-coated endosomal vesicles morphologically distinct from retromer-decorated non-branched endosomal tubule structures (PubMed:21725319) Colocalizes with EEA1 on nascent phagosomes in dendritic cells but competes with EEA1 for 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 minutes after infection (PubMed:20482551).

### SNX3 Antibody (Center) - Protocols

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

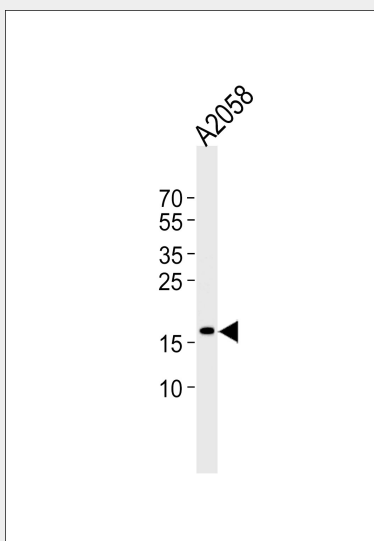
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SNX3 Antibody (Center) - Images

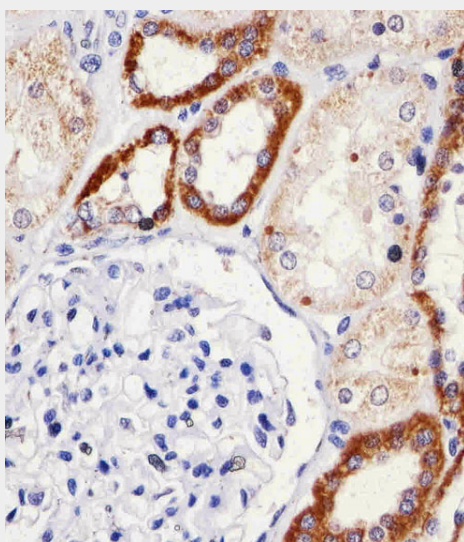


SNX3 Antibody (Center) (Cat. #AP18477c) western blot analysis in A2058 cell line lysates

(35ug/lane). This demonstrates the SNX3 antibody detected the SNX3 protein (arrow).



Western blot analysis of lysate from A2058 cell line, using SNX3 Antibody (Center)(Cat. #AP18477c). AP18477c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Immunohistochemical analysis of paraffin-embedded H. kidney section using SNX3 Antibody (Center)(Cat#AP18477c). AP18477c was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

### SNX3 Antibody (Center) - Background

This gene encodes a member of the sorting nexin family. Members of this family contain a phox (PX) domain, which is a phosphoinositide binding domain, and are involved in intracellular trafficking. This protein does not contain a coiled coil region, like most family members. This protein interacts with phosphatidylinositol-3-phosphate, and is involved in protein trafficking.

### SNX3 Antibody (Center) - References

Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :

Pons, V., et al. PLoS Biol. 6 (9), E214 (2008) :  
Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008)  
Dong, H., et al. Acta Biochim. Biophys. Sin. (Shanghai) 39(7):540-546(2007)  
Kumar, R.A., et al. BMC Med. Genet. 8, 48 (2007) :