

Rabbit SNX3 Polyclonal Antibody | anti-SNX3 antibody

SNX3 Antibody (Center)

CATALOG # AAA288208	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Bovine, Rat)	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

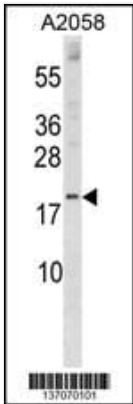
SNX3; Polyclonal Antibody; SNX3 Antibody (Center); Sorting nexin-3; Protein SDP3; anti-SNX3 antibody

PRODUCT SPECIFICATIONS

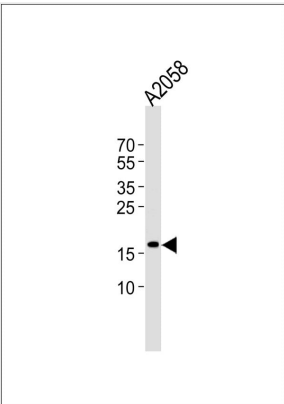
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SNX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-105 amino acids from the Central region of human SNX3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	78-105
Sequence Length	162
Applicable Applications for anti-SNX3 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Function	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-biphosphate(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: , PubMed:). 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:). Involved in iron homeostasis through regulation of endocytic recycling of the transferrin receptor TFRC presumably by delivering the tranferrin:transferrin receptor complex to recycling endosomes; the function may involve the CSC retromer subcomplex (By similarity). In the case of Salmonella enterica infection plays arole in maturation of the Salmonella-containing vacuole (SCV) and promotes recruitment of LAMP1 to SCVs (PubMed:).

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

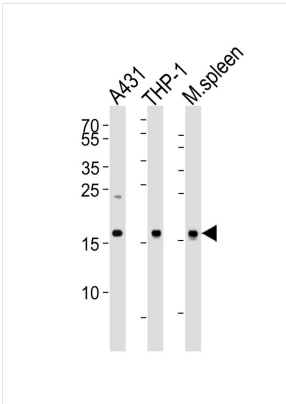
IMAGES



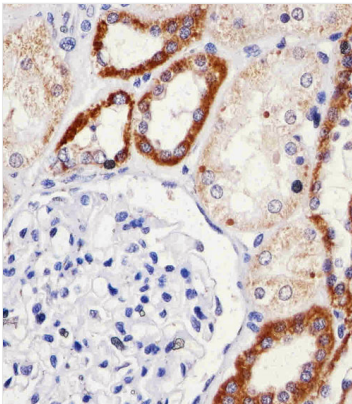
WB (Western Blot)
SNX3 Antibody (Center) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the SNX3 antibody detected the SNX3 protein (arrow).



WB (Western Blot)
Western blot analysis of lysate from A2058 cell line, using SNX3 Antibody (Center). AAA288208 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.



WB (Western Blot)
Western blot analysis of lysates from A431, THP-1 cell line and mouse spleen tissue lysate (from left to right), using SNX3 Antibody (Center). AAA288208 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded H. kidney section using SNX3 Antibody (Center). AAA288208 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-SNX3 antibody	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.
Product Categories/Family for anti-SNX3 antibody	Crown Antibodies; Signal Transduction

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) :
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507143
NCBI GeneID	8724
NCBI Accession #	NP_003786.1; NP_690040.1
NCBI GenBank Nucleotide #	NM_003795.5
UniProt Accession #	O60493; O60718; Q4TT29; Q4TT31; Q5JXJ7; Q5JXJ8; Q96AP9; Q9C0J5; Q9NU45; A8K0B1; E1P5E4; E1P5E5
Molecular Weight	18762
NCBI Official Full Name	sorting nexin-3 isoform a
NCBI Official Synonym Full Names	sorting nexin 3
NCBI Official Symbol	SNX3
NCBI Official Synonym Symbols	SDP3; Grd19; MCOPS8
NCBI Protein Information	sorting nexin-3
UniProt Protein Name	Sorting nexin-3
UniProt Gene Name	SNX3
UniProt Entry Name	SNX3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.