

**SNX27 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9947c****Specification**

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**SNX27 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q96L92](#)**SNX27 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 81609**Other Names**

Sorting nexin-27, SNX27, KIAA0488

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SNX27 Antibody (Center) Blocking Peptide - Protein Information****Name** SNX27**Synonyms** KIAA0488**Function**

Involved in the retrograde transport from endosome to plasma membrane, a trafficking pathway that promotes the recycling of internalized transmembrane proteins. Following internalization, endocytosed transmembrane proteins are delivered to early endosomes and recycled to the plasma membrane instead of being degraded in lysosomes. SNX27 specifically binds and directs sorting of a subset of transmembrane proteins containing a PDZ-binding motif at the C- terminus: following interaction with target transmembrane proteins, associates with the retromer complex, preventing entry into the lysosomal pathway, and promotes retromer-tubule based plasma membrane recycling. SNX27 also binds with the WASH complex. Interacts with membranes containing phosphatidylinositol-3-phosphate (PtdIns(3P)). May participate in establishment of natural killer cell polarity. Recruits CYTIP to early endosomes.

**Cellular Location**

Early endosome membrane; Peripheral membrane protein. Cytoplasm, cytosol. Note=Localizes to immunological synapse in T-cells. In T- cells, recruited from the cytosol to sorting endosomes by phosphoinositide-3-kinase products

**Tissue Location**

Widely expressed. Expressed in cells of hematopoietic origin (at protein level).

**SNX27 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**SNX27 Antibody (Center) Blocking Peptide - Images****SNX27 Antibody (Center) Blocking Peptide - Background**

SNX27 encodes a member of the sorting nexin family, a diverse group of cytoplasmic and membrane-associated proteins involved in endocytosis of plasma membrane receptors and protein trafficking through these compartments. All members of this protein family contain a phosphoinositide binding domain (PX domain). A highly similar protein in mouse is responsible for the specific recruitment of an isoform of serotonin 5-hydroxytryptamine 4 receptor into early endosomes, suggesting the analogous role for the human protein.

**SNX27 Antibody (Center) Blocking Peptide - References**

Lunn, M.L., et al. Nat. Neurosci. 10(10):1249-1259(2007) Nassirpour, R., et al. Channels (Austin) 1(5):331-333(2007) MacNeil, A.J., et al. Biochem. Biophys. Res. Commun. 359(4):848-853(2007) Rincon, E., et al. Mol. Cell Proteomics 6(6):1073-1087(2007)