

# **SNX5 Blocking Peptide (N-term)**

Synthetic peptide Catalog # BP20397a

### **Specification**

# SNX5 Blocking Peptide (N-term) - Product Information

Primary Accession Q9Y5X3

Other Accession <u>B1H267</u>, <u>Q9D8U8</u>, <u>Q3ZBM5</u>

# SNX5 Blocking Peptide (N-term) - Additional Information

Gene ID 27131

Other Names Sorting nexin-5, SNX5

#### **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**

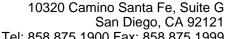
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### SNX5 Blocking Peptide (N-term) - Protein Information

### Name SNX5

# **Function**

Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) (PubMed:<a href="http://www.uniprot.org/citations/15561769" target=" blank">15561769</a>). Acts in part as component of the retromer membranedeforming 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). Does not have in vitro vesicle-to-membrane remodeling activity (PubMed: <a href="http://www.uniprot.org/citations/23085988" target=" blank">23085988</a>). Involved in retrograde transport of lysosomal enzyme receptor IGF2R (PubMed:<a href="http://www.uniprot.org/citations/17148574" target=" blank">17148574</a>, PubMed:<a href="http://www.uniprot.org/citations/18596235" target="blank">18596235</a>). May function as link between endosomal transport vesicles and dynactin (Probable). Plays a role in the internalization of EGFR after EGF stimulation (Probable). Involved in EGFR endosomal sorting and degradation; the function involves PIP5K1C isoform 3 and is retromer- independent (PubMed: <a href="http://www.uniprot.org/citations/23602387" target="\_blank">23602387</a>). Together





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with PIP5K1C isoform 3 facilitates HGS interaction with ubiquitinated EGFR, which initiates EGFR sorting to intraluminal vesicles (ILVs) of the multivesicular body for subsequent lysosomal degradation (Probable). Involved in E-cadherin sorting and degradation; inhibits PIP5K1C isoform 3-mediated E-cadherin degradation (PubMed:<a href="http://www.uniprot.org/citations/24610942" target=" blank">24610942</a>). Plays a role in macropinocytosis (PubMed:<a href="http://www.uniprot.org/citations/18854019" target=" blank">18854019</a>, PubMed:<a href="http://www.uniprot.org/citations/21048941" target=" blank">21048941</a>).

### **Cellular Location**

Endosome. Early endosome Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm. Cell projection, phagocytic cup. Cell projection, ruffle. Note=Recruited to the plasma membrane after EGF stimulation, which leads to increased levels of phosphatidylinositol 3.4-bisphosphate (PdtIns(3,4)P2) (PubMed:15561769). Detected on macropinosomes (PubMed:16968745, PubMed:21048941). Targeted to membrane ruffles in response to EGFR stimulation.

### SNX5 Blocking Peptide (N-term) - Protocols

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

• Blocking Peptides

SNX5 Blocking Peptide (N-term) - Images

SNX5 Blocking Peptide (N-term) - Background

May be involved in several stages of intracellular trafficking. Plays a role in macropinocytosis. Plays a role in the internalization of EGFR after EGF stimulation.