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SNX2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16134b

Specification

SNX2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O60749
Other Accession	Q9CWK8, P0C220, Q2TBW7, NP_003091.2
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**58471**
Antigen Region	**457-485**

SNX2 Antibody (C-term) - Additional Information

Gene ID 6643

Other Names
Sorting nexin-2, Transformation-related gene 9 protein, TRG-9, SNX2

Target/Specificity
This SNX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 457-485 amino acids from the C-terminal region of human SNX2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

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
SNX2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SNX2 Antibody (C-term) - Protein Information

Name SNX2

Function Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:16179610). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex (PubMed:17101778). 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). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity (PubMed:23085988). Required for retrograde endosome-to-TGN transport of TGN38 (PubMed:20138391). Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN (PubMed:20604901).

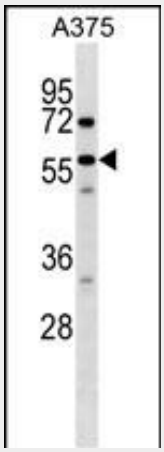
Cellular Location
Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium Note=Colocalized with SORT1 to tubular endosomal membrane structures called endosome-to-TGN transport carriers (ETCs) which are budding from early endosome vacuoles just before maturing into late endosome vacuoles (PubMed:18088323). Colocalized with F-actin at the leading edge of lamellipodia in cells in a KALRN-dependent manner (PubMed:20604901).

SNX2 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SNX2 Antibody (C-term) - Images



SNX2 Antibody (C-term) (Cat. #AP16134b) western blot analysis in A375 cell line lysates (35ug/lane).This demonstrates the SNX2 antibody detected the SNX2 protein (arrow).

SNX2 Antibody (C-term) - Background

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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 associates with formin-binding protein 17, but its function is unknown. This protein may form oligomeric complexes with family members.

SNX2 Antibody (C-term) - References

Skanland, S.S., et al. Traffic 8(3):297-309(2007)
Rojas, R., et al. Mol. Cell. Biol. 27(3):1112-1124(2007)
Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)
Carlton, J.G., et al. J. Cell. Sci. 118 (PT 19), 4527-4539 (2005) :
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