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SNX2 Antibody (aa350-400)
Rabbit Polyclonal Antibody
Catalog # ALS14899

Specification

SNX2 Antibody (aa350-400) - Product Information

Application	**WB**
Primary Accession	O60749
Reactivity	**Human, Mouse, Opossum, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**58kDa KDa**

SNX2 Antibody (aa350-400) - Additional Information

Gene ID 6643

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

Target/Specificity
Human SNX2

Reconstitution & Storage
Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions
SNX2 Antibody (aa350-400) is for research use only and not for use in diagnostic or therapeutic procedures.

SNX2 Antibody (aa350-400) - 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:<a

href="http://www.uniprot.org/citations/20138391" target="_blank">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).

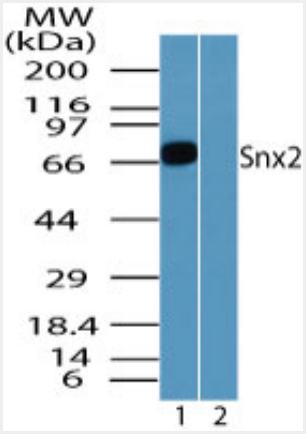
Cellular Location
Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium Note=Colocalized with SORT1 to tubular endosomal membrane structures called endosome-to-TGN transport carriers (ETCs) which are budding from early endosome vacuoles just before maturing 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 (aa350-400) - 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 (aa350-400) - Images



Western blot of Snx2 in mouse placenta lysate in the 1) absence and 2) presence of immunizing...

SNX2 Antibody (aa350-400) - Background

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SNX2 Antibody (aa350-400) - References

Kurten R.C.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
Haft C.R.,et al.Mol. Cell. Biol. 18:7278-7287(1998).
Kim J.W.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).