

KD-Validated Anti-Sorting Nexin 5 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1740**Specification****KD-Validated Anti-Sorting Nexin 5 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q9Y5X3
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 47 kDa , observed , 47 kDa KDa
Gene Name	SNX5
Aliases	SNX5; Sorting Nexin 5; Sorting Nexin-5
Immunogen	A synthesized peptide derived from human SNX5

KD-Validated Anti-Sorting Nexin 5 Rabbit Monoclonal Antibody - Additional Information

Gene ID	27131
Other Names	
Sorting nexin-5, SNX5	

KD-Validated Anti-Sorting Nexin 5 Rabbit Monoclonal Antibody - 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: [15561769](http://www.uniprot.org/citations/15561769)). Acts in part as component of the retromer membrane-deforming 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: [23085988](http://www.uniprot.org/citations/23085988)). Involved in retrograde transport of lysosomal enzyme receptor IGF2R (PubMed: [17148574](http://www.uniprot.org/citations/17148574), PubMed: [18596235](http://www.uniprot.org/citations/18596235)). 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: [23602387](http://www.uniprot.org/citations/23602387)). Together 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:24610942). Plays a role in macropinocytosis (PubMed:18854019, PubMed:21048941).

Cellular Location

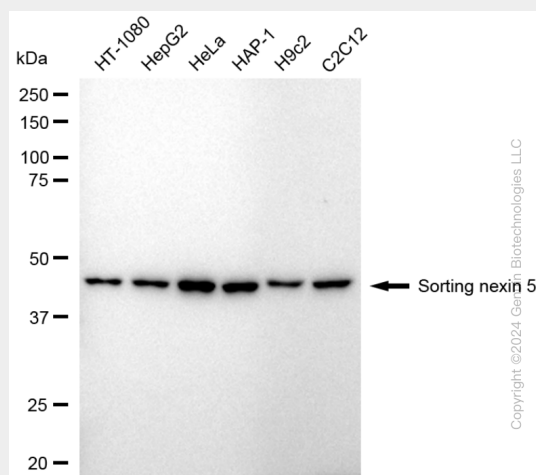
Endosome. Early endosome Early endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm. Cell projection, phagocytic cup. Cell projection, ruffle.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

KD-Validated Anti-Sorting Nexin 5 Rabbit Monoclonal Antibody - Protocols

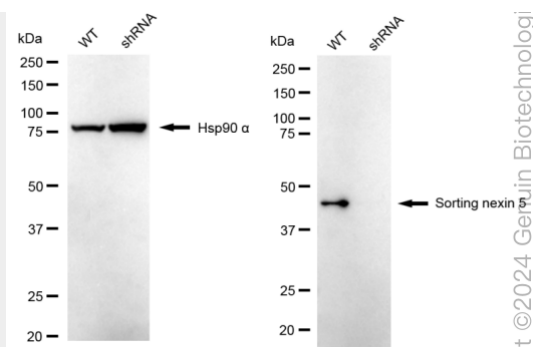
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

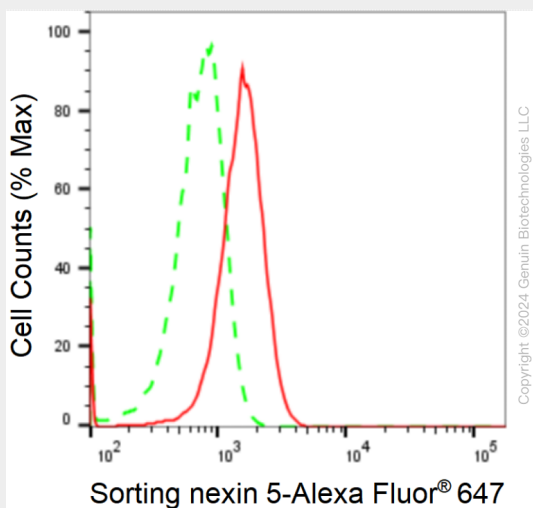
KD-Validated Anti-Sorting Nexin 5 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Sorting nexin 5 antibody (Cat#AGI1740). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Sorting nexin 5 antibody (Cat#AGI1740, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Sorting nexin 5 antibody (Cat#AGI1740). Sorting nexin 5 expression in wild type (WT) and Sorting nexin 5 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Sorting nexin 5 antibody (Cat#AGI1740, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Sorting nexin 5 expression in HAP-1 cells using anti-Sorting nexin 5 antibody (Cat#AGI1740, 1:2,000). Green, isotype control; red, Sorting nexin 5.