

# Anti-SNX5 Antibody (C-term), Biotinylated

Catalog # AF4277a

## Product Information

Application	WB, IHC, E
Primary Accession	<a href="#">Q9Y5X3</a>
Other Accession	<a href="#">27131</a> , <a href="#">NP_055241.1</a> , <a href="#">NP_001269383.1</a> , <a href="#">69178</a> , <a href="#">296199</a>
Reactivity	Human
Predicted	Human, Mouse, Pig
Calculated MW	46816

## Additional Information

Gene ID	27131
Other Names	sorting nexin; phox; PX; intracellular trafficking;
Target/Specificity	This antibody is expected to recognize both reported isoforms (NP_055241.1; NP_001269383.1). Reported variants represent identical protein: NP_055241.1, NP_689413.1
Dilution	WB~~1:1000 IHC~~1:100~500 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-SNX5 Antibody (C-term), Biotinylated is for research use only and not for use in diagnostic or therapeutic procedures.

## 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="#">15561769</a> ). 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: <a href="#">23085988</a> ). Involved in retrograde transport of lysosomal enzyme receptor IGF2R (PubMed: <a href="#">17148574</a> , PubMed: <a href="#">18596235</a> ). May function as link between endosomal transport vesicles and dynactin (Probable). Plays a role in

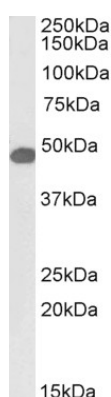
the internalization of EGFR after EGF stimulation (Probable). Involved in EGFR endosomal sorting and degradation; the function involves PIP5K1C isoform 3 and is retromer- independent (PubMed:[23602387](#)). Together with PIP5K1C isoform 3 facilitates HGS interaction with ubiquitinated EGFR, which initiates 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 (PdtIns(3,4)P2) (PubMed:15561769). Detected on macropinosomes (PubMed:16968745, PubMed:21048941). Targeted to membrane ruffles in response to EGFR stimulation.

## Images

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Biotinylated antibody (2 µg/ml) staining of A549 lysate (35 µg protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as a substitute for skimmed milk.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.