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

Catalog # AF4277a

## Product Information

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| **Application** | WB, IHC, E |
| **Primary Accession** | Q9Y5X3 |
| **Other Accession** | 27131, NP_055241.1, NP_001269383.1, 69178, 296199 |
| **Reactivity** | Human |
| **Predicted** | Human, Mouse, Pig |
| **Calculated MW** | 46816 |

## Additional Information

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| **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

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| **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). 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). Involved in retrograde transport of lysosomal enzyme receptor IGF2R (PubMed:17148574, PubMed: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). 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


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.