

Rabbit SNX1 Polyclonal Antibody | anti-SNX1 antibody

SNX1 Antibody

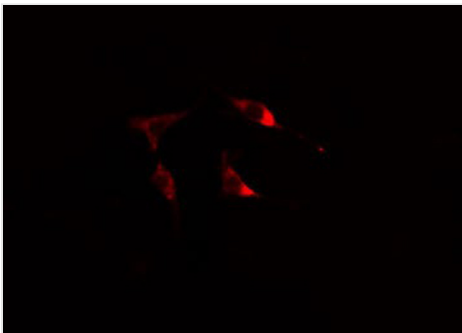
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325183	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

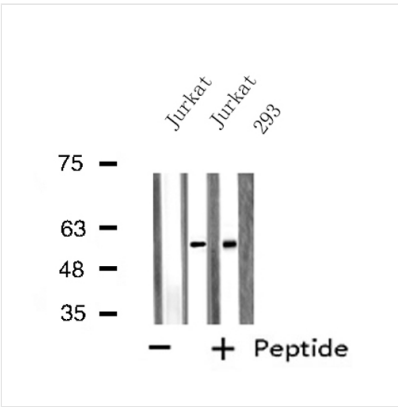
SNX1; Polyclonal Antibody; SNX1 Antibody; HsT17379; MGC8664; SNX 1; SNX 1a; Snx1; SNX1_HUMAN; SNX1A; Sorting nexin 1; Sorting nexin 1A; Sorting nexin-1; Vps5; anti-SNX1 antibody

PRODUCT SPECIFICATIONS

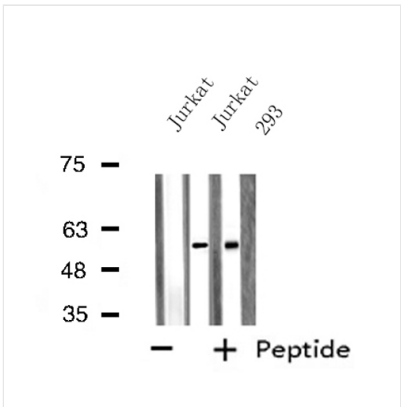
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SNX1 antibody detects endogenous levels of total SNX1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	557
Applicable Applications for anti-SNX1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endosome Membrane. Golgi Apparatus > Trans-Golgi Network Membrane. Early Endosome Membrane. Enriched on tubular elements of the early endosome membrane. Binds preferentially to highly curved membranes enriched in phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3, 5-bisphosphate (PtdIn.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)
AAA325183 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Jurkat/293 cells, using SNX1 antibody.



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Western blot analysis of extracts from Jurkat/293 cells, using SNX1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SNX1 antibody	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:12198132). 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). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity (PubMed:19816406, PubMed:23085988). Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R, M6PR and SORT1) and Shigella dysenteriae toxin stxB. Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi (PubMed:12198132, PubMed:15498486, PubMed:17550970, PubMed:17101778, PubMed:18088323, PubMed:21040701). Involvement in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R (PubMed:16407403, PubMed:20070609). 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). Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking (PubMed:23152498). Subunit Structure: Predominantly forms heterodimers with BAR domain-containing sorting nexins SNX5, SNX6 and SNX32; can self-associate to form homodimers (PubMed:23085988). The heterodimers are proposed to self-assemble into helical arrays on the membrane to stabilize and expand local membrane curvature underlying endosomal tubule formation. Thought to be a component of the originally described retromer complex (also called SNX-BAR retromer) which is a pentamer containing the heterotrimeric retromer cargo-selective complex (CSC), also described as vacuolar protein sorting subcomplex (VPS) and a heterodimeric membrane-deforming subcomplex formed between SNX1 or SNX2 and SNX5 or SNX6 (also called SNX-BAR subcomplex); the respective CSC and SNX-BAR subcomplexes associate with low affinity (Probable). Interacts with SNX5, SNX6, SNX32, VPS26A, VPS29, VPS35, DRD5, DENND5A, KALRN, RHOG (GDP-bound form) (PubMed:9819414, PubMed:11102511, PubMed:19619496, PubMed:19935774, PubMed:19619496, PubMed:20604901, PubMed:23085988, PubMed:23152498). The interaction with SNX2 is reported controversially (PubMed:9819414, PubMed:11997453, PubMed:19619496, PubMed:23085988). Interacts with DNAJC13; prevented by presence of HGS (PubMed:19874558). Interacts with HGS (By similarity). Similarity: The BAR domain is able to sense membrane curvature upon dimerization (PubMed:19816406). Membrane remodeling seems to implicate insertion of a N-terminal amphipatric helix (AH) in the membrane (Probable). Belongs to the sorting nexin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	339409190
NCBI GeneID	6642
NCBI Accession #	NP_001229862.1
NCBI GenBank Nucleotide #	NM_001242933.1
UniProt Accession #	Q13596; O60750; O60751; Q6ZRJ8; A6NM19; A8K6T7; H0Y2M5
Molecular Weight	Observed: 59 kD Predicted: 60 kDa
NCBI Official Full Name	sorting nexin-1 isoform d
NCBI Official Synonym Full Names	sorting nexin 1
NCBI Official Symbol	SNX1
NCBI Official Synonym Symbols	VPS5; HsT17379
NCBI Protein Information	sorting nexin-1
UniProt Protein Name	Sorting nexin-1
UniProt Gene Name	SNX1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/snx1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325183>