

Rabbit SNX6 Polyclonal Antibody | anti-SNX6 antibody

Anti-SNX6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127382	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SNX6; Polyclonal Antibody; Anti-SNX6 Antibody Picoband; AP-2 complex subunit beta; AP105B; Adaptor protein complex AP-2 subunit beta; Adaptor-related protein complex 2 subunit beta; Beta-2-adaptin; Beta-adaptin; Clathrin assembly protein complex 2 beta large chain; Plasma membrane adaptor HA2/AP2 adaptin beta subunit; AP2B1; ADTB2; CLAPB1; anti-SNX6 antibody

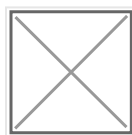
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed, at a low level, and the highest expression is observed in skeletal muscle and brain. Also detected in fetal liver.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-SNX6 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human SNX6 recombinant protein (Position: M1-T406).
Subcellular Localization	Cell membrane, Membrane, coated pit, Peripheral membrane protein, Cytoplasmic side, AP-2 appears to be excluded from internalizing CCVs and to disengage from sites of endocytosis seconds before internalization of the nascent CCV
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Component of the adaptor protein complex 2 (AP-2). Adaptor protein complexes function in protein transport via transport vesicles in different membrane traffic pathways. Adaptor protein complexes are vesicle coat components and appear to be involved in cargo selection and vesicle formation. AP-2 is involved in clathrin-dependent endocytosis in which cargo proteins are incorporated into vesicles surrounded by clathrin (clathrin-coated vesicles, CCVs) which are destined for fusion with the early endosome. The clathrin lattice serves as a mechanical scaffold but is itself unable to bind ly to membrane components. Clathrin-associated adaptor protein (AP) complexes which can bind ly to both the clathrin lattice and to the lipid and protein components of membranes are considered to be the major clathrin adaptors contributing the CCV formation. AP-2 also serves as a cargo receptor to selectively sort the membrane proteins involved in receptor-mediated endocytosis. AP-2 seems to play a role in the recycling of synaptic vesicle membranes from the presynaptic surface. AP-2 recognizes Y-X-X-[FILMV] (Y-X-X-Phi) and [ED]-X-X-X-L-[LI] endocytosis signal motifs within the cytosolic tails of transmembrane cargo molecules. AP-2 may also play a role in maintaining normal post-endocytic trafficking through the ARF6-regulated, non-clathrin pathway. The AP-2 beta subunit acts via its C-terminal appendage domain as a scaffolding platform for endocytic accessory proteins; at least some clathrin-associated sorting proteins (CLASPs) are recognized by their [DE]-X (1,2)-F-X-X-[FL]-X-X-X-R motif. The AP-2 beta subunit binds to clathrin heavy chain, promoting clathrin lattice assembly; clathrin displaces at least some CLASPs from AP2B1 which probably then can be positioned for further coat assembly.

Preparation and Storage

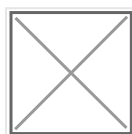
At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



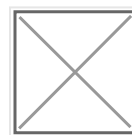
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HCT116 cells using anti-SNX6 antibody (AAA127382).Overlay histogram showing HCT116 cells stained with AAA127382 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SNX6 Antibody (AAA127382, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of SNX6 using anti-SNX6 antibody (AAA127382).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human A549 whole cell lysates,Lane 2: rat brain tissue lysates,Lane 3: rat C6 whole cell lysates,Lane 4: mouse brain tissue lysates,Lane 5: mouse RAW264.7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SNX6 antigen affinity purified polyclonal antibody (#AAA127382) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SNX6 at approximately 47 kDa. The expected band size for SNX6 is at 47 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of SNX6 using anti-SNX6 antibody (AAA127382).SNX6 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-SNX6 Antibody (AAA127382) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-SNX6 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-SNX6 antibody	Primary Antibodies ; Adapters ; Coat Proteins ; Cytoplasmic ; Protein Trafficking ; Signal Transduction ; Vesicle Transport
References	1. Chen, D., Xiao, H., Zhang, K., Wang, B., Gao, Z., Jian, Y., Qi, X., Sun, J., Miao, L., Yang, C. Retromer is required for apoptotic cell clearance by phagocytic receptor recycling. Science 327: 1261-1264, 2010.2. Parks, W. T., Frank, D. B., Huff, C., Haft, C. R., Martin, J., Meng, X., de Caestecker, M. P., McNally, J. G., Reddi, A., Taylor, S. I., Roberts, A. B., Wang, T., Lechleider, R. J. Sorting nexin 6, a novel SNX, interacts with the transforming growth factor-beta family of receptor serine-threonine kinases. J. Biol. Chem. 276: 19332-19339, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4689252
NCBI GeneID	58533
UniProt Accession #	Q9UNH7 ; Q9Y449 ; C0H5W9
Molecular Weight	33,570 Da

NCBI Official Full Name	sorting nexin 6
NCBI Official Synonym Full Names	sorting nexin 6
NCBI Official Symbol	SNX6
NCBI Official Synonym Symbols	TFAF2; MSTP010
NCBI Protein Information	sorting nexin-6
UniProt Protein Name	Sorting nexin-6
UniProt Gene Name	SNX6

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/snx6-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127382>