

Rabbit SNX9 Polyclonal Antibody | anti-SNX9 antibody

SNX9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325941	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

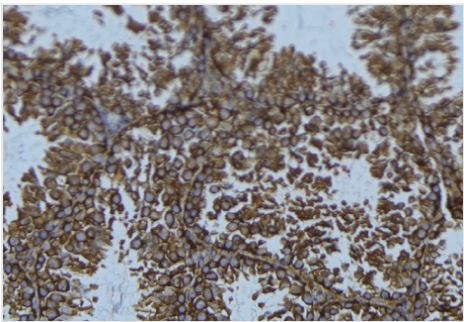
PRODUCT SYNONYMS

SNX9; Polyclonal Antibody; SNX9 Antibody; MST 155; MST155; MSTP 155; MSTP155; OTTHUMP00000040083; Protein SDP 1; Protein SDP1; SDP 1; SDP1; SH3 and PX domain containing protein 3A; SH3 and PX domain containing protein SH3PX1; SH3 and PX domain-containing protein 1; SH3 and PX domain-containing protein 3A; SH3PX1; SH3PXD3A; SNX 9; SNX9_HUMAN; Sorting nexin 9; Sorting nexin-9; WASP interactor protein; Wiskott Aldrich syndrome protein (WASP) interactor protein; Wiskott Aldrich syndrome protein interactor protein; WISP; anti-SNX9 antibody

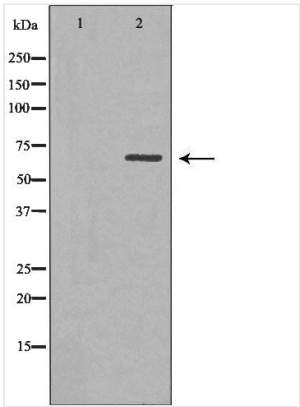
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SNX9 antibody detects endogenous levels of total SNX9
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	595
Applicable Applications for anti-SNX9 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SNX9
Subcellular Location	Cytoplasmic Vesicle Membrane. Cell Membrane. Cytoplasmic Vesicle > Clathrin-Coated Vesicle. Golgi Apparatus > Trans-Golgi Network. Cell Projection > Ruffle. Cytoplasm. Localized at sites of endocytosis at the cell membrane. Detected on newly formed macropinosomes. Transiently recruited to clathrin-coated pits at a late stage of clathrin-coated vesicle formation. Colocalizes with the actin cytoskeleton at the cell membrane.
Tissue Specificity	Widely expressed, with highest levels in heart and placenta, and lowest levels in thymus and peripheral blood leukocytes.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (83%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325941 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela lysate using SNX9 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SNX9 antibody

Description: This gene encodes a member of the sorting nexin family. Members of this family contain a phox (PX) domain, which is a phosphoinositide binding domain, and are involved in intracellular trafficking. This protein does not contain a coiled coil region, like some family members, but does contain a SH3 domain near its N-terminus. This protein interacts with the cytoplasmic domains of the precursor but not the processed forms of a disintegrin and metalloprotease domain 9 and 15. This protein binds the beta-appendage domain of adaptor protein 2 and may function to assist adaptor protein 2 in its role at the plasma membrane. This protein interacts with activated Cdc42-associated kinase-2 to regulate the degradation of epidermal growth factor receptor protein. [provided by RefSeq, Jul 2008]

Function: Involved in endocytosis and intracellular vesicle trafficking, both during interphase and at the end of mitosis. Required for efficient progress through mitosis and cytokinesis. Required for normal formation of the cleavage furrow at the end of mitosis. Plays a role in endocytosis via clathrin-coated pits, but also clathrin-independent, actin-dependent fluid-phase endocytosis. Plays a role in macropinocytosis. Promotes internalization of TNFR. Promotes degradation of EGFR after EGF signaling. Stimulates the GTPase activity of DNM1. Promotes DNM1 oligomerization. Promotes activation of the Arp2/3 complex by WASL, and thereby plays a role in the reorganization of the F-actin cytoskeleton. Binds to membranes enriched in phosphatidylinositol 4, 5-bisphosphate and promotes membrane tubulation. Has lower affinity for membranes enriched in phosphatidylinositol 3-phosphate.

Subunit Structure: Homodimer, and homooligomer. Heterodimer with SNX18. Interacts with ITCH. Interacts (via SH3 domain) with TNK2, WASL and ARP3. Identified in a complex with TNK2 and clathrin heavy chains. Identified in a complex with the AP-2 complex, clathrin and DNM2. Interacts (via SH3 domain) with DNM1 and DNM2. Identified in an oligomeric complex containing DNM1 and SNX9. Interacts with ADAM9 and ADAM15 cytoplasmic tails.

Post-translational Modifications: Ubiquitinated by ITCH. Phosphorylated on tyrosine residues by TNK2. Phosphorylation promotes its activity in the degradation of EGFR.

Similarity: The PX domain mediates interaction with membranes enriched in phosphatidylinositol phosphate. Has high affinity for phosphatidylinositol 4, 5-bisphosphate, but can also bind to membranes enriched in other phosphatidylinositol phosphates. Belongs to the sorting nexin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7706706
NCBI GeneID	51429
NCBI Accession #	NP_057308.1
NCBI GenBank Nucleotide #	NM_016224.4
UniProt Accession #	Q9Y5X1; Q9BSI7; Q9BVM1; Q9UJH6; Q9UP20
Molecular Weight	Observed: 67 kDa Predicted: 67 kDa

NCBI Official Full Name	sorting nexin-9
NCBI Official Synonym Full Names	sorting nexin 9
NCBI Official Symbol	SNX9
NCBI Official Synonym Symbols	SDP1; WISP; SH3PX1; SH3PXD3A
NCBI Protein Information	sorting nexin-9
UniProt Protein Name	Sorting nexin-9
UniProt Gene Name	SNX9
UniProt Synonym Gene Names	SH3PX1; SH3PXD3A; Protein SDP1

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://www.aaabiotech.com/polyclonal/snx9-antibody-immunohistochemistry-western-blot-elisa/325941>