

KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2074

Product Information

Application	WB, FC, ICC
Primary Accession	Q9Y5X1
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB13195
Calculated MW	66592
Gene Name	SNX9
Aliases	SNX9; Sorting Nexin 9; SH3PXD3A; SH3PX1; SDP1; SH3 And PX Domain-Containing Protein 3A; SH3 And PX Domain-Containing Protein 1; Sorting Nexin-9; Wiskott-Aldrich Syndrome Protein (WASP) Interactor Protein; Protein SDP1; WISP
Immunogen	Recombinant protein of human SNX9

Additional Information

Gene ID	51429
Other Names	Sorting nexin-9, SH3 and PX domain-containing protein 1, Protein SDP1, SH3 and PX domain-containing protein 3A, SNX9, SH3PX1, SH3PXD3A

Protein Information

Name	SNX9
Synonyms	SH3PX1, SH3PXD3A
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.

Cellular Location	Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle, clathrin-coated vesicle. Golgi apparatus, trans-Golgi network. Cell projection, ruffle. Cytoplasm Note=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
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Tissue Location	Widely expressed, with highest levels in heart and placenta, and lowest levels in thymus and peripheral blood leukocytes
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