

**KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2075****Specification****KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9Y5X1</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	Predicted, 67 kDa, observed, 74 kDa kDa
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

**KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody - Additional Information**

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

**KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody - 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

#### Tissue Location

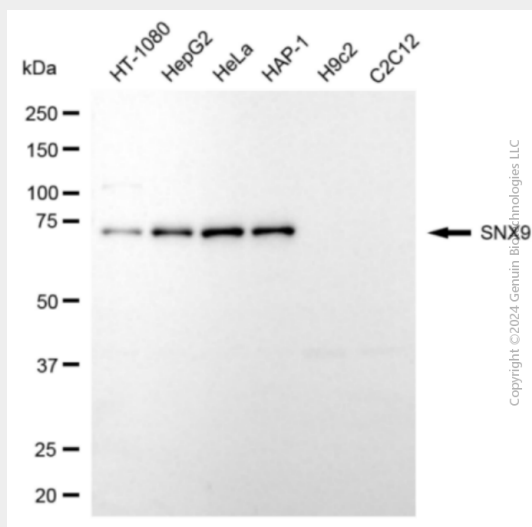
Widely expressed, with highest levels in heart and placenta, and lowest levels in thymus and peripheral blood leukocytes

### KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody - Protocols

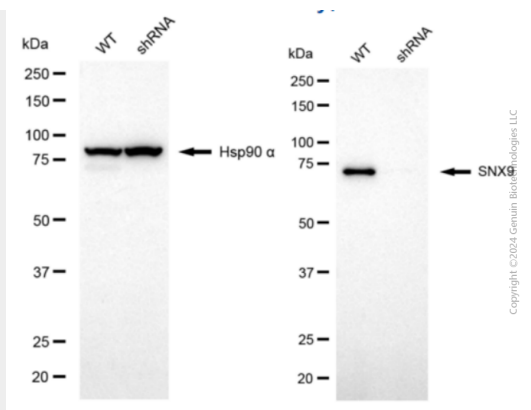
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-SNX9 antibody (Cat#AGI2075). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-SNX9 antibody (Cat#AGI2075, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-SNX9 antibody (Cat#AGI2075). SNX9 expression in wild-type (WT) and SNX9 shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-SNX9 antibody (Cat#AGI2075, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.