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KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2074

Specification

KD-Validated Anti-Sorting Nexin 9 Mouse Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9Y5X1
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 67 kDa, observed, 73 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**

Other Names
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

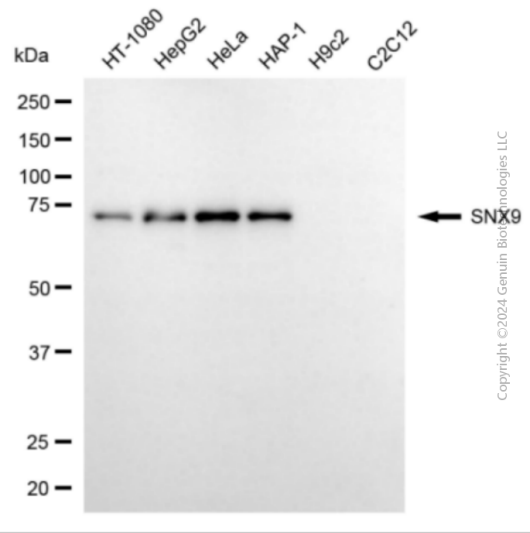
Tissue Location
Widely expressed, with highest levels in heart and placenta, and lowest levels in thymus and peripheral blood leukocytes

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 Cytomety
- Cell Culture

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



Western blotting analysis using anti-SNX9 antibody (Cat#AGI2074). 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#AGI2074, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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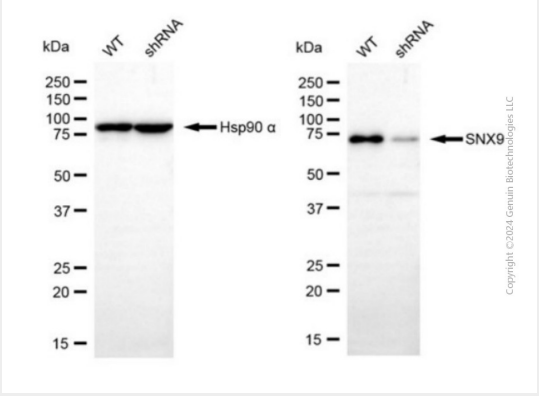
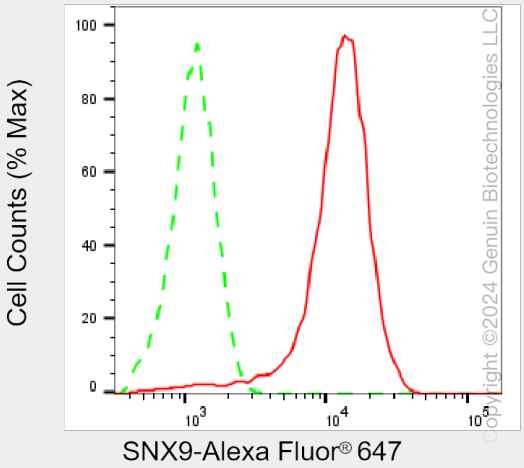
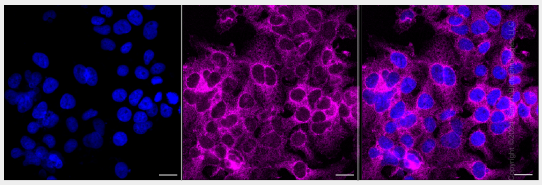


Western blotting analysis using anti-SNX9 antibody (Cat #AGI2074). SNX9 expression in wild-type (WT) and SNX9 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-SNX9 antibody (Cat #AGI2074, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of SNX9 expression in HeLa cells using anti-SNX9 antibody (Cat#AGI2074, 1:2,000). Green, isotype control; red, SNX9.



Immunocytochemical staining of Hela cells with anti-SNX9 associated protein antibody (Cat#AGI2074, 1:1,000). Nuclei were stained blue with DAPI; SNX9 associated protein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.