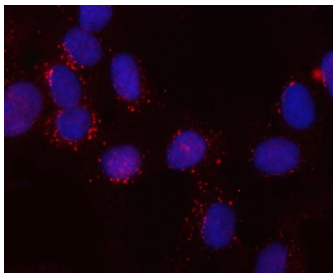
SNX6 Antibody / Sorting Nexin 6 (RQ8931)

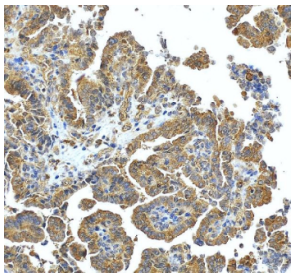
Catalog No.	Formulation	Size
RQ8931	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

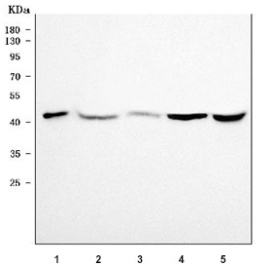
Availability	1-2 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UNH7
Localization	Cytoplasm, nucleus
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml ELISA : 0.1-0.5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This SNX6 antibody is available for research use only.



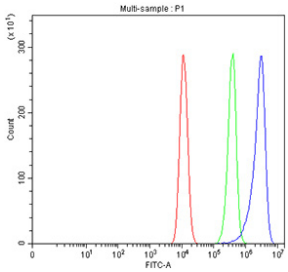
Immunofluorescent staining of FFPE human U-2 OS cells with SNX6 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human ovarian cancer tissue with SNX6 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human A549, 2) rat brain, 3) rat C6, 4) mouse brain and 5) mouse RAW264.7 cell lysate with SNX6 antibody. Predicted molecular weight ~47 kDa.



Flow cytometry testing of fixed and permeabilized human HCT-116 cells with SNX6 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SNX6 antibody.

Description

SNX6 (Sorting Nexin 6) is a member of the sorting nexin family, a group of proteins that regulate intracellular trafficking and endosomal sorting. It contains a Phox (PX) domain that binds phosphoinositides, allowing SNX6 to associate with membranes of the endosomal system. Through its involvement in vesicular transport, SNX6 helps direct cargo proteins to specific cellular destinations. A SNX6 antibody is widely used in studies of endosomal trafficking, protein sorting, and membrane dynamics.

SNX6 is a component of the retromer complex, which mediates the retrograde transport of proteins from endosomes back to the trans-Golgi network. This pathway is crucial for maintaining receptor recycling, lysosomal enzyme trafficking, and signaling receptor turnover. By studying SNX6 with a SNX6 antibody, researchers can evaluate its role in cargo recognition and retromer function, as well as its contribution to cellular homeostasis.

Beyond vesicle trafficking, SNX6 has been implicated in multiple signaling pathways. It interacts with transforming growth factor beta (TGF-Î²) receptors and may influence TGF-Î² signaling, thereby linking endosomal sorting to cell growth and differentiation. Dysregulation of SNX6 expression or function has been associated with cancer progression, neurodegeneration, and viral infection. Employing a SNX6 antibody enables scientists to explore these diverse biological roles and to better understand how endosomal dynamics intersect with signaling networks.

NSJ Bioreagents offers a high-quality SNX6 antibody validated for applications including western blot, immunohistochemistry, and immunofluorescence. Choosing a SNX6 antibody from NSJ Bioreagents ensures reliable performance and reproducible results in studies of protein trafficking, retromer biology, and disease-related signaling.

Application Notes

Optimal dilution of the SNX6 antibody should be determined by the researcher.

Immunogen

Amino acids M1-T406 from the human protein were used as the immunogen for the SNX6 antibody.

Storage

After reconstitution, the SNX6 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.