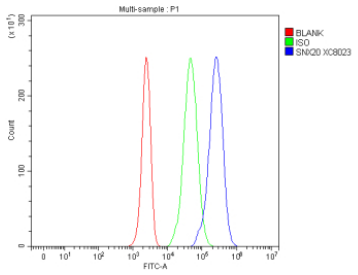
SNX20 Antibody / Sorting nexin 20 (FY12308)

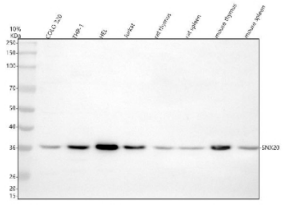
Catalog No.	Formulation	Size
FY12308	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q7Z614
Applications	Western Blot : 0.25-0.5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This SNX20 antibody is available for research use only.



Flow Cytometry analysis of Jurkat cells using anti-SNX20 antibody. Overlay histogram showing Jurkat cells stained with (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-SNX20 antibody (1 ug/million cells) for 30 min at 20oC. DyLight 488 conjugated goat anti-rabbit IgG (5-10 ug/million cells) was used as secondary antibody for 30 minutes at 20oC. Isotype control antibody (Green line) was rabbit IgG (1 ug/million cells) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Western blot analysis of SNX20 using anti-SNX20 antibody. Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: human COLO-320 whole cell lysates, Lane 2: human THP-1 whole cell lysates, Lane 3: human HEL whole cell lysates, Lane 4: human Jurkat whole cell lysates, Lane 5: rat thymus tissue lysates, Lane 6: rat spleen tissue lysates, Lane 7: mouse thymus tissue lysates, Lane 8: mouse spleen tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SNX20 antibody at 0.5 ug/ml overnight at 4oC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal was developed using an ECL Plus Western Blotting Substrate. The expected molecular weight of SNX20 is ~36 kDa.

Description

SNX20 antibody detects Sorting nexin-20, encoded by the SNX20 gene on chromosome 17p13.1. SNX20 antibody is widely used in studies of vesicular trafficking, endocytosis, and immune regulation. SNX20 belongs to the sorting nexin family, a group of proteins involved in endosomal sorting, membrane trafficking, and signal transduction. These proteins share a conserved PX domain that binds phosphoinositides and targets them to endosomal membranes.

Structurally, SNX20 is a ~37 kDa protein containing a phox homology (PX) domain and a long coiled-coil region. This domain architecture allows membrane binding and protein-protein interactions that drive endosomal sorting. Unlike some sorting nexins, SNX20 lacks a BAR domain, suggesting its primary function is cargo recognition and endosomal signaling rather than membrane tubulation.

Functionally, SNX20 regulates trafficking of membrane proteins from early endosomes to recycling or degradation pathways. It has been implicated in controlling receptor turnover, modulating immune receptor signaling, and maintaining endosomal organization. Researchers use SNX20 antibody to study intracellular trafficking and receptor regulation in immune cells and other tissues.

Clinically, SNX20 dysregulation has been linked to inflammatory bowel disease, gastric cancer, and lung cancer. Altered expression may affect immune receptor localization and tumor progression. Because endosomal trafficking influences many signaling pathways, SNX20 is a candidate biomarker and therapeutic target. NSJ Bioreagents provides SNX20 antibody to support studies of vesicular trafficking, immunity, and cancer.

Experimentally, SNX20 antibody is used in western blotting to detect the ~37 kDa protein, in immunofluorescence microscopy to assess endosomal localization, and in immunohistochemistry to study expression in tissues. Co-immunoprecipitation with SNX20 antibody identifies trafficking partners and cargo proteins.

Application Notes

Optimal dilution of the SNX20 antibody should be determined by the researcher.

Immunogen

E.coli-derived human SNX20 recombinant protein (Position: M55-H316) was used as the immunogen for the SNX20 antibody.

Storage

After reconstitution, the SNX20 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.