abcam

ab77799

Anti-SNX27 antibody [1C6]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	1C6
Purification technique	Affinity purification
Epitope	N-terminal amino acids 1-267.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	5 µg/mL
Notes	-

Predicted

Species	Monkey
Dilution info	-
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Monkey
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	0.1-1 µg for 10^6 Cells
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Monkey
Dilution info	-
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	10 µg/mL
Notes	Abcam recommends using 3% milk as the blocking agent.

Not recommended

Species	Mouse
Dilution info	-
Notes	Abcam recommends using 3% milk as the blocking agent.

Species	Monkey
Dilution info	-
Notes	-

Target data

See full target information SNX27

Function	Involved in the retrograde transport from endosome to plasma membrane, a trafficking pathway that promotes the recycling of internalized transmembrane proteins. Following internalization, endocytosed transmembrane proteins are delivered to early endosomes and recycled to the plasma membrane instead of being degraded in lysosomes. SNX27 specifically binds and directs sorting of a subset of transmembrane proteins containing a PDZ-binding motif at the C-

terminus: following interaction with target transmembrane proteins, associates with the retromer complex, preventing entry into the lysosomal pathway, and promotes retromer-tubule based plasma membrane recycling. SNX27 also binds with the WASH complex. Interacts with membranes containing phosphatidylinositol-3-phosphate (PtdIns(3P)). May participate in establishment of natural killer cell polarity. Recruits CYTIP to early endosomes.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

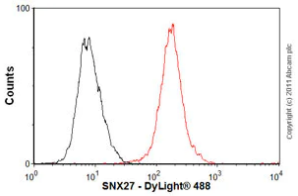
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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Terms & Conditions.

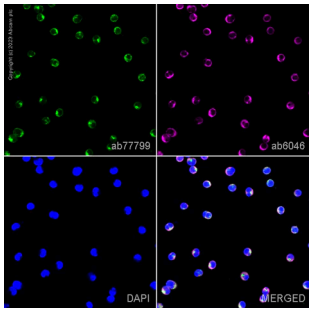
5 product images



Flow Cytometry (Intracellular) - Anti-SNX27 antibody [1C6] (ab77799)

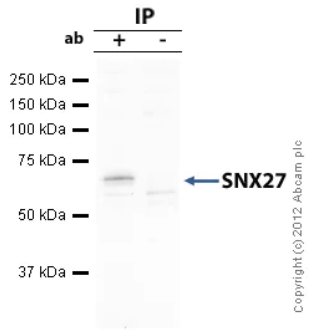
SNX27 Flow Cytometry (Intracellular) staining using mouse Anti-SNX27 antibody

Overlay histogram showing Jurkat cells stained with ab77799 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab77799, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-SNX27 antibody [1C6] (ab77799)

ab77799 staining SNX27 in Jurkat cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab77799 at 5µg/ml and ab6046, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with ab150117, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and ab150080, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue). Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.

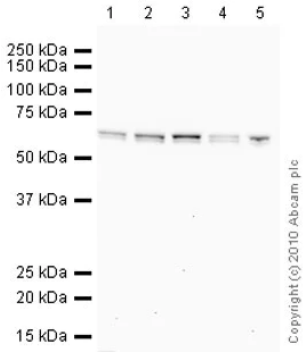


Immunoprecipitation - Anti-SNX27 antibody [1C6] (ab77799)

SNX27 was immunoprecipitated using 0.5mg Hek293 whole cell extract, 5µg of Mouse monoclonal to SNX27 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Hek293 whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab77799.
Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/5000 dilution.
Band: 61kDa: SNX27.
All lanes:

Immunoprecipitation - Anti-SNX27 antibody [1C6] (ab77799)

Predicted band size: 61 kDa



Western blot - Anti-SNX27 antibody [1C6] (ab77799)

Blocking: 5% Milk in TBS-T.
Two bands are observed very close together, at around 60-kDa. There are four reported isoforms of the SNX27 protein (Swissprot). We hypothesise that this antibody detects both isoform 1 and isoform 2, which are 61-kDa and 60-kDa respectively. As the immunogen is derived from the N-terminal region of SNX27, the antibody is not expected to react with isoforms 3 or 4.

All lanes:
Western blot - Anti-SNX27 antibody [1C6] (ab77799) at 1 µg/mL

Lane 1:
HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

Lane 2:
A431 (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

Lane 3:
HEK293 (Human embryonic kidney cell line) Whole Cell Lysate at 10 µg

Lane 4:
A549 (Human lung adenocarcinoma epithelial cell line) Whole Cell Lysate at 10 µg

Lane 5:
MDA-MB-231 (Human breast adenocarcinoma cell line) Whole Cell Lysate at 10 µg

Secondary

All lanes:
Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

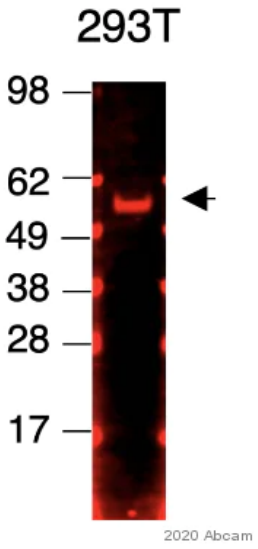
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 61 kDa

Observed band size: 61 kDa

Exposure time: 15min



This image is courtesy of an anonymous customer review

Western blot - Anti-SNX27 antibody [1C6] (ab77799)

4-12% bis-tris gel, MES buffer
All lanes:
Western blot - Anti-SNX27 antibody [1C6] (ab77799) at 1/1000 dilution

All lanes:
human kidney whole cell lysate at 30 µg

Secondary

All lanes:
IRDye® 680RD Goat anti-Mouse IgG (H + L) at 1/15000 dilution

Performed under reducing conditions.

Exposure time: 5min

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.