abcam

ab314541

Anti-SNX1 (phospho S188) antibody [EPR26023-114]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR26023-114
Purification technique	Affinity purification Protein A
Concentration	0.501 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Transfected cell lysate - Human

Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse, Rat, Synthetic peptide - Human, Transfected cell line - Human
Dilution info	-
Notes	-

Dot

Tested

Species	Synthetic peptide - Human
Dilution info	1/1000
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat, Transfected cell lysate - Human, Transfected cell line - Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat, Transfected cell lysate - Human, Synthetic peptide - Human, Transfected cell line - Human
Dilution info	-

Notes	-

ICC/IF

Tested

Species	Transfected cell line - Human
Dilution info	1/50
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat, Transfected cell lysate - Human, Synthetic peptide - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Transfected cell line - Human
Dilution info	1/500
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat, Transfected cell lysate - Human, Synthetic peptide - Human
Dilution info	-
Notes	-

IP

Tested

Species	Transfected cell lysate - Human
Dilution info	1/30
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat, Synthetic peptide - Human, Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information SNX1 pS188

Function Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:12198132). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity (PubMed:19816406, PubMed:23085988). Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R,

M6PR and SORT1) and Shiginella dysenteria toxin stxB. Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi (PubMed:12198132, PubMed:15498486, PubMed:17101778, PubMed:17550970, PubMed:18088323, PubMed:21040701). Involvement in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R (PubMed:16407403, PubMed:20070609). Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN (PubMed:20604901). Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking (PubMed:23152498).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
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

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

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.

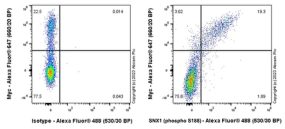
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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

Full details and terms and conditions can be found here:
Terms & Conditions.

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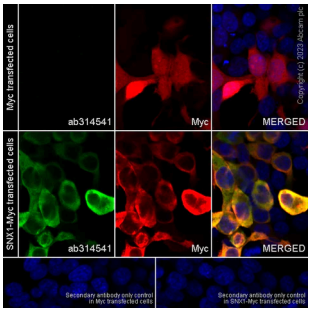
6 product images



Flow Cytometry (Intracellular) - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541)

SNX1 (phospho S188) Flow Cytometry (Intracellular) staining of 293T cells transfected with a SNX1 expression vector containing a myc tag (Right) using rabbit Anti-SNX1 (phospho S188) antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (Left) / 293T cells transfected with a SNX1 expression vector containing a myc tag (Right) cells labelling SNX1 (phospho S188) with ab314541 at 1/500 dilution (0.1 ug)/Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



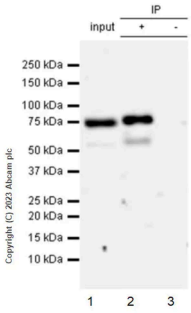
Immunocytochemistry/ Immunofluorescence - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541)

SNX1 (phospho S188) Immunocytochemistry/ Immunofluorescence staining of 293T (Human embryonic kidneyepithelial cell) transfected with a SNX1 expression vector containing a myc tag using rabbit Anti-SNX1 (phospho S188) antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T (Human embryonic kidneyepithelial cell) transfected with a SNX1 expression vector containing a myc tag cells labelling SNX1 (phospho S188) with ab314541 at 1/50 (10.02 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/mL) dilution (Green). Confocal image showing cytoplasmic staining in 293T cells transfected with a human SNX1 expression vector containing a myc tag. Image was taken with a confocal

microscope (Leica-Microsystems, TCS SP8). Myc-Tag Mouse mAb (Alexa Fluor® 647) was used to counterstain at 1/100 (0.38ug/ ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution.



Immunoprecipitation - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541)

SNX1 (phospho S188) was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) cells transfected with a human SNX1 expression vector containing a His-tag, whole cell lysate with ab314541 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab314541 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: 293T (human embryonic kidney epithelial cell) cells transfected with a human SNX1 expression vector containing a His-tag, whole cell lysate

Lane 2: ab314541 IP in 293T (human embryonic kidney epithelial cell) cells transfected with a human SNX1 expression vector containing a His-tag, whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab314541 in 293T cells transfected with a human SNX1 expression vector containing a His-tag, whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

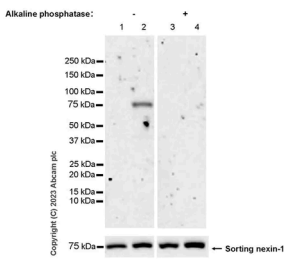
All lanes:
Immunoprecipitation - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541) at 1/30 dilution

All lanes:
293T (human embryonic kidney epithelial cell) cells transfected with a human SNX1 expression vector containing a His-tag, whole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 180s



Western blot - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541)

Blocking and diluting buffer and concentration: 5% NFDM/TBST

All lanes:
Western blot - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541) at 1/1000 dilution

Lane 1:
Wild-type 293T (human embryonic kidney epithelial cell) whole cell lysate (untreated membrane) at 20 µg

Lane 2:
293T treated with 100 nM Calycin A for 30 minutes whole cell lysate (untreated membrane) at 20 µg

Lane 3:

Wild-type 293T (human embryonic kidney epithelial cell) whole cell lysate (phosphatase treated membrane) at 20 µg

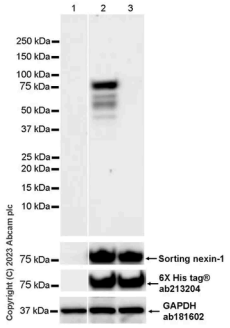
Lane 4:
293T treated with 100 nM Calycin A for 30 minutes whole cell lysate (phosphatase treated membrane) at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 74 kDa

Exposure time: 180s



Western blot - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541)

Blocking and diluting buffer and concentration: 5% NFDM/TBST

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-6X His tag® antibody [EPR20547] - ChIP Grade (ab213204) staining at 1/5000 dilution.

All lanes:
Western blot - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney epithelial cell) cells transfected with an empty vector containing a His-tag, whole cell lysate at 20 µg

Lane 2:
293T cells transfected with a human SNX1 expression vector containing a His-tag, whole cell lysate at 20 µg

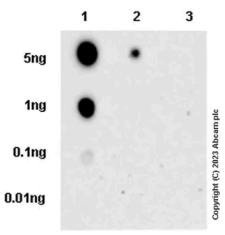
Lane 3:
293T cells transfected with a human SNX1(S188A mutant) expression vector containing a His-tag, whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 74 kDa, 36 kDa

Exposure time: 26s



Dot Blot - Anti-SNX1 (phospho S188) antibody [EPR26023-114] (ab314541)

SNX1 (phospho S188) Dot Blot staining using rabbit Anti-SNX1 (phospho S188) antibody

Dot blot analysis of SNX1 (phospho S188) using ab314541 at 1:1000 (0.501 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.

Exposure time: 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST

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