abcam

ab316103

Anti-SNX17 (phospho S336) antibody [EPR26024-4]

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	EPR26024-4
Purification technique	Affinity purification Protein A
Concentration	0.506 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse, Human, Synthetic peptide - Human, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Predicted

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Synthetic peptide - Human, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

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

Predicted

Species	Human

Dilution info	-
Notes	-

Not recommended

Species	Mouse, Synthetic peptide - Human, Rat
Dilution info	-
Notes	-

IP

Tested

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

Predicted

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Synthetic peptide - Human, Rat
Dilution info	-
Notes	-

Dot

Tested

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

Predicted

Species	Human
Dilution info	-
Notes	-

Not recommended

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

IHC-P

Not recommended

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

Target data

See full target information SNX17 phospho S336

Function	Critical regulator of endosomal recycling of numerous surface proteins, including integrins, signaling receptor and channels (PubMed:15121882, PubMed:15769472, PubMed:39587083). Binds to NPxY sequences in the cytoplasmic tails of target cargos (PubMed:21512128). Associates with retriever and CCC complexes to prevent lysosomal degradation and promote cell surface recycling of numerous cargos such as integrins ITGB1, ITGB5 and their associated alpha subunits (PubMed:22492727, PubMed:28892079, PubMed:39587083). Also required for maintenance of normal cell surface levels of APP and LRP1 (PubMed:16712798, PubMed:19005208). Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) (PubMed:16712798).

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

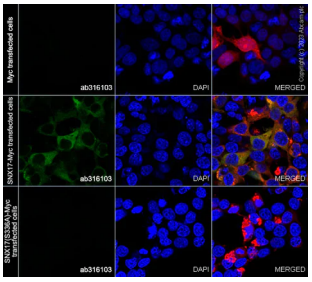
We do not recommend this combination. It is not covered by our product promise.

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.

5 product images



Immunocytochemistry/ Immunofluorescence - Anti-SNX17 (phospho S336) antibody [EPR26024-4] (ab316103)

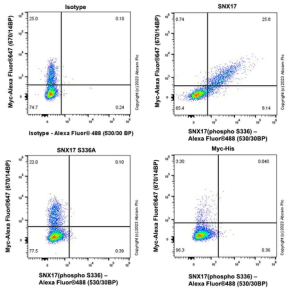
SNX17 (phospho S336) Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SNX17 (phospho S336) antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T (Human embryonic kidneyepithelial cell) cells labelling SNX17 (phospho S336) with ab316103 at 1/1000 (0.506 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 SNX17 expression vector containing a myc tag, and no staining in 293T cells transfected with a human SNX17 (S336A mutant) expression vector containing a myc tag.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

ab223894 Anti-Myc tag mouse monoclonal antibody (Alexa Fluor® 594) was used to counterstain at 1/100 (5 ug/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.



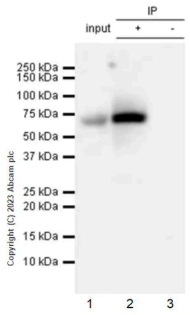
Flow Cytometry (Intracellular) - Anti-SNX17 (phospho S336) antibody [EPR26024-4] (ab316103)

SNX17 (phospho S336) Flow Cytometry (Intracellular) staining using rabbit Anti-SNX17 (phospho S336) antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (Upper Left) / 293T cells transfected with a human SNX17 expression vector containing a myc tag (Upper Right) / 293T cells transfected with a human SNX17 S336A mutant expression vector containing a myc tag (Lower Left) / 293T cells transfected with an empty expression vector containing a myc tag (Lower Right) cells labelling SNX17 (phospho S336) with ab316103 at 1/500 dilution (0.1 ug)/Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells are co-stained with Myc tag conjugated to Alexa Fluor®647.



Immunoprecipitation - Anti-SNX17 (phospho S336) antibody [EPR26024-4] (ab316103)

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

SNX17 (phospho S336) was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) cells transfected with a human SNX17 expression vector containing a His-tag, whole cell lysate with ab316103 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab316103 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 SNX17 expression vector containing a His-tag, whole cell lysate
Lane 2: ab316103 IP in 293T (human embryonic kidney epithelial cell) cells transfected with a human SNX17 expression vector containing a His-tag, whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab316103 in 293T cells transfected with a human SNX17 expression vector containing a His-tag, whole cell lysate.

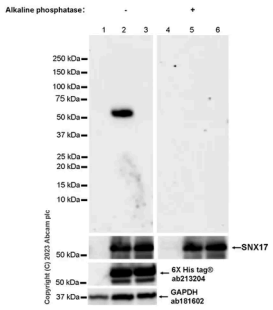
All lanes:
Immunoprecipitation - Anti-SNX17 (phospho S336) antibody [EPR26024-4] (ab316103) at 1/30 dilution

All lanes:
293T (human embryonic kidney epithelial cell) cells transfected with a human SNX17 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: 10s



Western blot - Anti-SNX17 (phospho S336) antibody [EPR26024-4] (ab316103)

SNX17 (phospho S336) Western blot staining using rabbit Anti-SNX17 (phospho S336) antibody

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-SNX17 (phospho S336) antibody [EPR26024-4] (ab316103) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containing a His-tag, whole cell lysate (untreated membrane) at 10 µg

Lane 2:
293T cells transfected with a Human wild-type SNX17 expression vector containing a His-tag, whole cell lysate (untreated membrane) at 10 µg

Lane 3:

293T cells transfected with a Human SNX17 (S336A mutant) expression vector containing a His-tag, whole cell lysate (untreated membrane) at 10 µg

Lane 4:
293T cells transfected with an empty vector containing a His-tag, whole cell lysate (alkaline phosphatase treated membrane) at 10 µg

Lane 5:
293T cells transfected with a Human wild-type SNX17 expression vector containing a His-tag, whole cell lysate (alkaline phosphatase treated membrane) at 10 µg

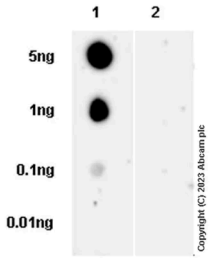
Lane 6:
293T cells transfected with a Human SNX17 (S336A mutant) expression vector containing a His-tag, whole cell lysate (alkaline phosphatase treated membrane) at 10 µg

Secondary

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

Observed band size: 55 kDa, 36 kDa

Exposure time: 26s



Dot Blot - Anti-SNX17 (phospho S336) antibody [EPR26024-4] (ab316103)

SNX17 (phospho S336) Dot Blot staining using rabbit Anti-SNX17 (phospho S336) antibody

Dot blot analysis of SNX17 (phospho S336) using ab316103 at 1:1000 (0.506 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'.