abcam

ab324287

PE Anti-SLC38A5 / SNAT5 antibody [EPR27109-86]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR27109-86
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/50

Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information SLC38A5

Function	Symporter that cotransports neutral amino acids and sodium ions, coupled to an H(+) antiporter activity (PubMed:11243884). Releases L-glutamine and glycine from astroglial cells and may participate in the glutamate/GABA-L-glutamine cycle and the NMDA receptors activation (By similarity). In addition, contributes significantly to L-glutamine uptake in retina, namely in ganglion and Mueller cells therefore, participates in the retinal glutamate-glutamine cycle (By similarity). The transport activity is pH sensitive and Li(+) tolerant (PubMed:11243884). Moreover functions in both direction and is associated with large uncoupled fluxes of protons (By similarity). The transport is electroneutral coupled to the cotransport of 1 Na(+) and the antiport of 1 H(+) (By similarity). May have a particular importance for modulation of net hepatic glutamine flux (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Store in the dark

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

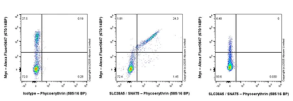
We do not recommend this combination. It is not covered by our product promise.

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.

3 product images

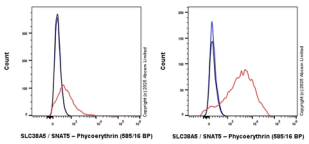


Flow Cytometry - PE Anti-SLC38A5 / SNAT5 antibody [EPR27109-86] (ab324287)

SLC38A5 / SNAT5 Flow Cytometry staining using rabbit Anti-SLC38A5 / SNAT5 antibody

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Isotype (Left) / 293T (human embryonic kidney epithelial cell) cells transfected with a human SLC38A5 expression vector containing a Myc tag (Middle) / 293T cells transfected with an empty expression vector containing a Myc tag (Right) cells labelling SLC38A5 / SNAT5 with ab324287 at 1/50000 dilution (0.001ug) / Middle and Right compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Phycoerythrin) (ab209478) / Left isotype control.

Live cells were surface stained with our antibody, then fixed with 2% PFA followed by intracellular staining with Myc-tag conjugated to Alexa Fluor® 647.

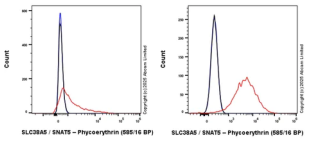


Flow Cytometry - PE Anti-SLC38A5 / SNAT5 antibody [EPR27109-86] (ab324287)

SLC38A5 / SNAT5 Flow Cytometry staining using rabbit Anti-SLC38A5 / SNAT5 antibody

Flow cytometric analysis of HepG2 (human hepatocellular carcinoma epithelial cell) (Right) / A549 (human lung carcinoma epithelial cell) (Left) cells labelling SLC38A5 / SNAT5 with ab324287 at 1/50 dilution (1ug) (Red) compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Phycoerythrin) (ab209478) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Low expression: A549.
Gated on viable cells.



Flow Cytometry - PE Anti-SLC38A5 / SNAT5 antibody [EPR27109-86] (ab324287)

SLC38A5 / SNAT5 Flow Cytometry staining using rabbit Anti-SLC38A5 / SNAT5 antibody

Flow cytometric analysis of 143B (human osteosarcoma cell, Left) / HeLa (human cervical adenocarcinoma epithelial cell, Right) cells labelling SLC38A5 / SNAT5 with ab324287 at 1/50 dilution (1ug) (Red) compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Phycoerythrin) (ab209478) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Low expression: 143B (PMID: 27129276).
Gated on viable cells.

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