abcam

ab238793

Anti-SLC34A2 antibody [SP322] - BSA and Azide free

Recombinant | RabMAb | Advanced Validation

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	SP322
Purification technique	Affinity purification Protein A/G
Concentration	1.048 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS by protein A/G.

Reactivity data

mIHC

Tested

Species	Human
Dilution info	1/1000

Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Perform heat mediated antigen retrieval with EDTA buffer pH 8.0 before commencing with IHC staining protocol. Primary antibody incubation for 10 minutes at room temperature.

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information SLC34A2

Function	Involved in actively transporting phosphate into cells via Na(+) cotransport.

Storage

Shipped at conditions	Blue Ice

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab238793 is the carrier-free version of ab228474.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

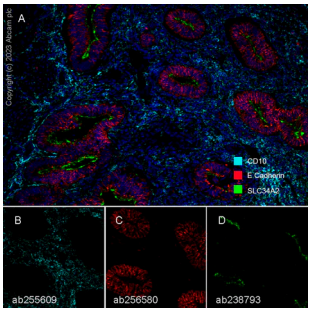
We do not recommend this combination. It is not covered by our product promise.

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.

11 product images



Multiplex immunohistochemistry - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

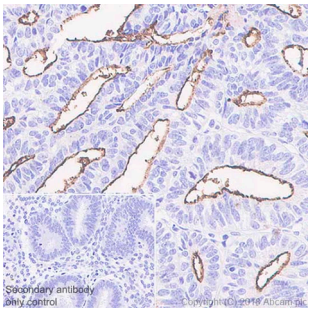
SLC34A2 Multiplex immunohistochemistry staining of Human endometrium tissue using rabbit Anti-SLC34A2 antibody

Fluorescence multiplex immunohistochemical analysis of the human endometrium (Formalin/PFA-fixed paraffin-embedded sections).
Panel A: merged staining of anti-E Cadherin (ab256580, red; Opal™690), anti-SLC34A2 (ab238793, green; Opal™520) and anti-CD10 (ab255609, cyan; Opal™570) on human endometrium. Panel B: anti-CD10 stained on stromal cells. Panel C: anti-E Cadherin stained on glandular cells. Panel D: anti-SLC34A2 stained on apical membrane of glandular cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

The section was incubated in three rounds of staining: in the order of ab256580 at 1/3000 dilution (0.324 µg/ml) for 30 mins, ab238793 at 1/1000 dilution (2.26 µg/ml) for 10 mins and ab255609 at 1/1000 dilution (0.615 µg/ml) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. DAPI (blue) was used as a nuclear counterstain.

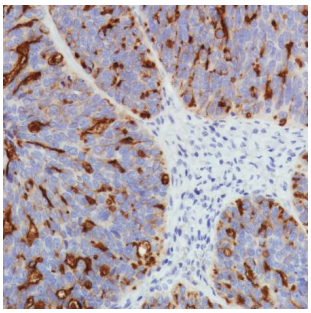


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human endometrial carcinoma tissue sections labeling SLC34A2 with ab228474 at 1/100 dilution (2.37 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the luminal surface of human endometrial carcinoma, performed on a Leica Biosystems BOND™ RX instrument.

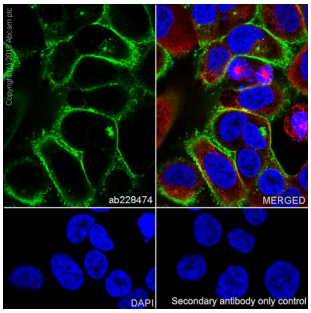
The section was incubated with ab228474 for 10 mins at room temperature. This image was generated using ab228474, the same clone, but with a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

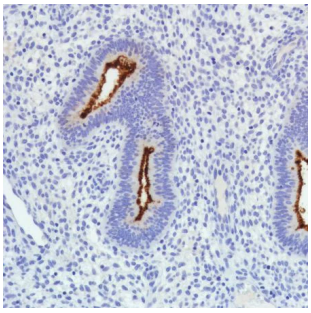
Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab228474).



Immunocytochemistry/ Immunofluorescence - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SLC34A2 antibody

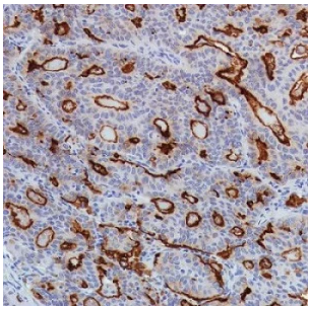
Immunocytochemistry/ Immunofluorescence analysis of NIH/OVCAR-3 (human ovary adenocarcinoma epithelial cell) cells labeling SLC34A2 with purified ab228474 at 1/100 (2.4 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab228474).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

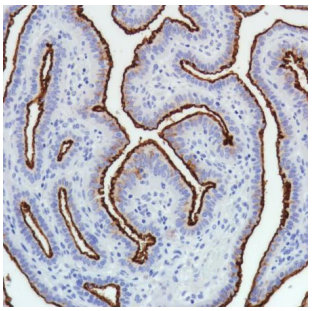
Formalin-fixed, paraffin-embedded human uterus tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab228474).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

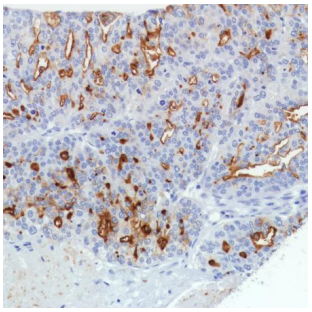
Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

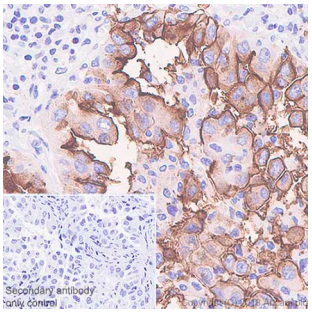
Formalin-fixed, paraffin-embedded human fallopian tube tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab228474).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab228474).

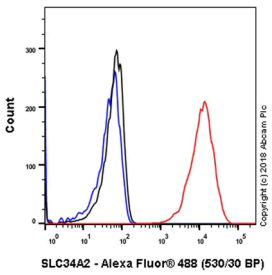


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue sections labeling SLC34A2 with ab228474 at 1/100 dilution (2.37 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the human lung carcinoma, performed on a Leica Biosystems BOND™ RX instrument.

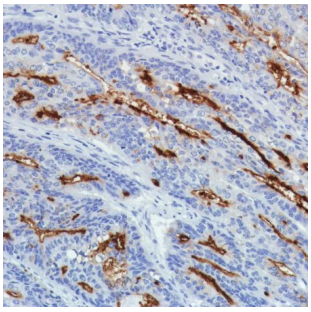
The section was incubated with ab228474 for 10 mins at room temperature. This image was generated using ab228474, the same clone, but with a different buffer formulation.



Flow Cytometry (Intracellular) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Flow Cytometry (Intracellular) staining using rabbit Anti-SLC34A2 antibody

Intracellular Flow Cytometry analysis of OvCAR-3 (human ovary adenocarcinoma) labeling SLC34A2 with purified ab228474 at 1/20 dilution (11.85µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as a secondary antibody. Isotypecontrol - Rabbit monoclonal IgG (ab172730) (black). Unlableled control - Unlabelled cells (blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab228474).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - BSA and Azide free (ab238793)

SLC34A2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SLC34A2 antibody

Formalin-fixed, paraffin-embedded human endometrial adenocarcinoma tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab228474).

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