abcam

ab228474

Anti-SLC34A2 antibody [SP322] - N-terminal

Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474) is a rabbit monoclonal antibody detecting SLC34A2 in **Flow Cytometry (Intra), IHC-P, ICC/IF, mIHC**. Suitable for **Human**.

- Multiplex IHC validated on the Leica BOND® MAX using Opal reagents
- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	SP322
Purification technique	Affinity purification Protein A/G
Purification notes	Purified from TCS by protein A/G.

Reactivity data

mIHC

Tested

Species	Human
Dilution info	-

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/20
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100
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	1/100
Notes	-

Target data

See full target information SLC34A2

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

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

What is this antibody validated in?
Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474) is a rabbit recombinant monoclonal antibody and is validated for use in Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF), Multiplex IHC (mIHC) in Human samples.

Collaboration
Anti-SLC34A2 [SP322] - N-terminal (ab228474) is a clone from the portfolio of Spring Bioscience (Roche) SP clones which have been optimised for immunohistochemistry (IHC).

Other related products
We have a range of other formats of antibody clone [SP322] also available for your convenience: ab228474, Carrier free - ab238793, Alexa Fluor® 488 - ab315178, Alexa Fluor® 647 - ab315179, PE - ab322453

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size 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

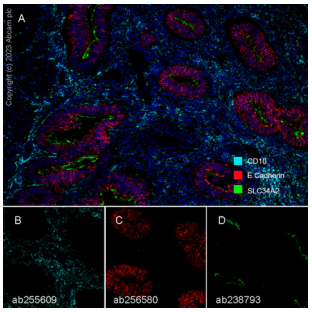
We do not recommend this combination. It is not covered by our product promise.

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.

11 product images



Multiplex immunohistochemistry - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

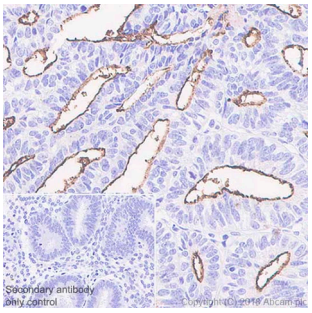
Fluorescence multiplex immunohistochemical analysis of the human endometrium (Formalin/PFA-fixed paraffin-embedded sections).
Panel A: merged staining of anti-E Cadherin (ab256580, red; Opal™690), anti-SLC34A2 (ab238793, green; Opal™520) and anti-CD10 (ab255609, cyan; Opal™570) on human endometrium. 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.

This image was generated using ab238793, the same clone, but with a different buffer formulation.

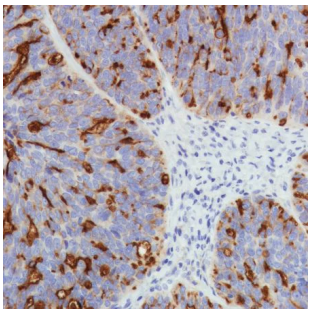


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

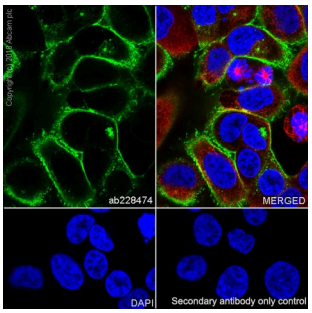
instrument.
The section was incubated with ab228474 for 10 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

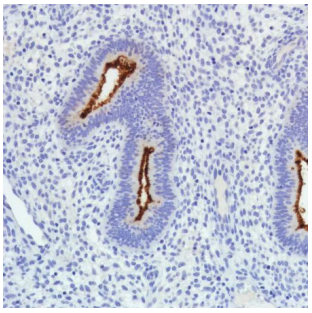
Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

SLC34A2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SLC34A2 antibody

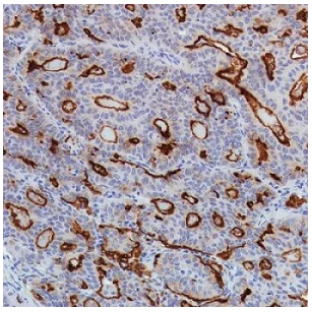
Immunocytochemistry/ Immunofluorescence analysis of NIH:OVCAR-3 (human ovary adenocarcinoma epithelial cell) cells labeling SLC34A2 with purified ab228474 at 1/100 (2.4 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with ab195889 Anti-alpha 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

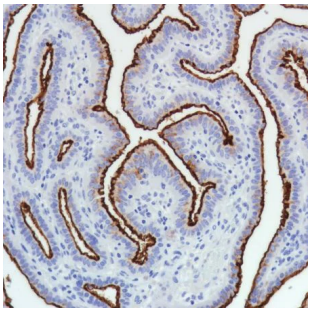
Formalin-fixed, paraffin-embedded human uterus tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

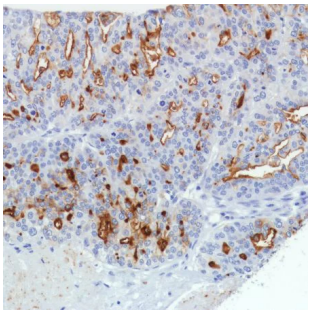
Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

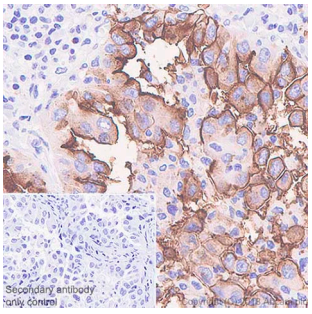
Formalin-fixed, paraffin-embedded human fallopian tube tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

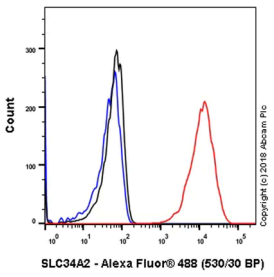
Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for SLC34A2 using ab228474 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

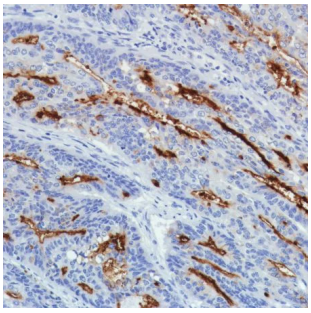
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The section was incubated with ab228474 for 10 mins at room temperature.



Flow Cytometry (Intracellular) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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

Flow cytometry analysis of OvCAR-3 (human ovary adenocarcinoma) labeling SLC34A2 with purified ab228474 at 1/20 dilution (11.85 µg/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. Isotype control -Rabbit monoclonal IgG (ab172730) (Black). Unlableled control -Unlabelled cells (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLC34A2 antibody [SP322] - N-terminal (ab228474)

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.

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