abcam

ab180851

Anti-CLCA1 antibody [EPR12254-88]

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), 0.21% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR12254-88
Purification technique	Affinity purification Protein A
Concentration	0.26 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Rat
Dilution info	1/1000 - 1/10000
Notes	-

Species	Human

Dilution info	1/1000 - 1/10000
Notes	-

Species	Mouse
Dilution info	1/1000 - 1/10000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	-

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/4000
Notes	**For unpurified use at 1/100 - 1/250.**

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CLCA1

Function	May be involved in mediating calcium-activated chloride conductance. May play critical roles in goblet cell metaplasia, mucus hypersecretion, cystic fibrosis and AHR. May be involved in the regulation of mucus production and/or secretion by goblet cells. Involved in the regulation of tissue inflammation in the innate immune response. May play a role as a tumor suppressor. Induces MUC5AC.

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

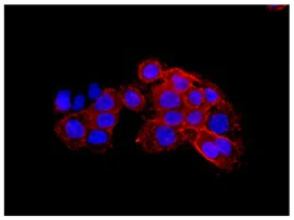
We do not recommend this combination. It is not covered by our product promise.

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.

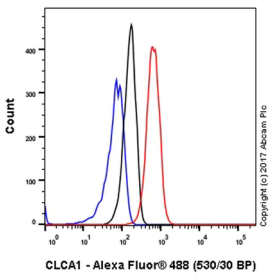
8 product images



Immunocytochemistry/ Immunofluorescence - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

CLCA1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CLCA1 antibody

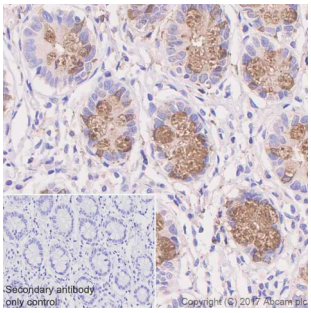
Immunofluorescence analysis of A431 cells labeling CLCA1 using unpurified ab180851 at 1/50 dilution.



Flow Cytometry (Intracellular) - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

CLCA1 Flow Cytometry (Intracellular) staining using rabbit Anti-CLCA1 antibody

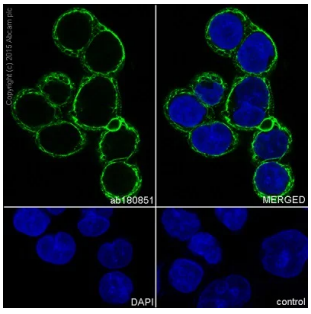
Intracellular Flow Cytometry analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling CLCA1 with purified ab180851 at 1/20 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

CLCA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CLCA1 antibody

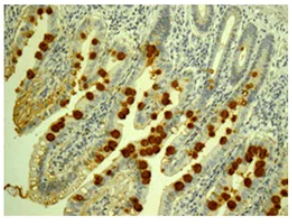
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human small intestine tissue sections labeling CLCA1 with Purified ab180851 at 1:4000 dilution (0.07 µg/ml). Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunocytochemistry/ Immunofluorescence - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

CLCA1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CLCA1 antibody

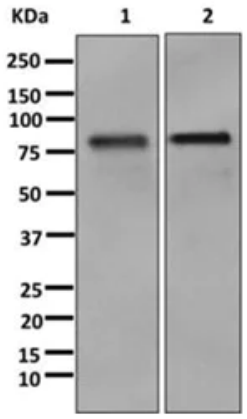
Immunocytochemistry/ Immunofluorescence analysis of SW480 (Human colorectal adenocarcinoma epithelial cell) cells labeling CLCA1 with Purified ab180851 at 1:100 dilution. Cells were fixed in 100% Methanol. ab150077 Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

CLCA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CLCA1 antibody

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling CLCA1 using unpurified ab180851 at 1/100 dilution.



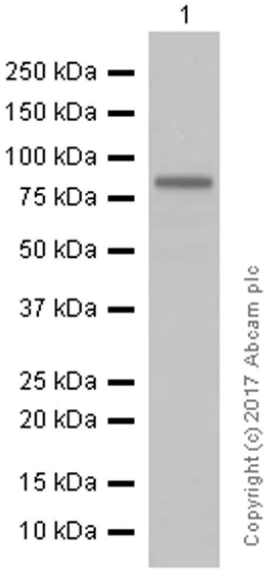
Western blot - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

All lanes:
Western blot - Anti-CLCA1 antibody [EPR12254-88] (ab180851) at 1/1000 dilution

Lane 1:
Human colon cancer lysates at 10 µg

Lane 2:
Human small intestine lysates at 10 µg

Predicted band size: 100 kDa



Western blot - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

CLCA1 Western blot staining of Human small intestine lysates using rabbit Anti-CLCA1 antibody

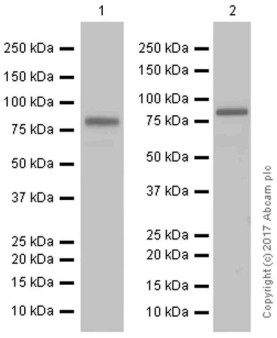
Blocking and diluting buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-CLCA1 antibody [EPR12254-88] (ab180851) at 1/10000 dilution

All lanes:
Human small intestine lysates at 15 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

Predicted band size: 100 kDa



Western blot - Anti-CLCA1 antibody [EPR12254-88] (ab180851)

CLCA1 Western blot staining using rabbit Anti-CLCA1 antibody

Blocking and diluting buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-CLCA1 antibody [EPR12254-88] (ab180851) at 1/50000 dilution

Lane 1:
Rat small intestine lysates at 15 µg

Lane 2:
Mouse small intestine lysates at 15 µg

Secondary

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

Predicted band size: 100 kDa

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