abcam

ab186421

Anti-CCL27 antibody [EPR8582(2)]

Recombinant | RabMAb

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	EPR8582(2)
Purification technique	Affinity purification Protein A
Concentration	1.632 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

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

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/250
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/320
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CCL27

Function	Chemotactic factor that attracts skin-associated memory T-lymphocytes. May play a role in mediating homing of lymphocytes to cutaneous sites. Binds to CCR10.

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CCL27 also known as CTACK (cutaneous T cell-attracting chemokine) is a chemokine that plays a critical role in skin immune surveillance. It has a mass of approximately 10 kDa. CCL27 is expressed in keratinocytes which are the predominant cells in the epidermis. It is also secreted by cells in inflamed skin. Researchers often use ELISA (enzyme-linked immunosorbent assay) techniques to study CCL27 due to its importance in skin immunology.

Biological function summary	CCL27 attracts T cells to the skin's surface facilitating immune responses. Although not part of a larger complex CCL27 interacts with its receptor CCR10 on T cells directing them to skin sites where they can perform immune surveillance and respond to pathogens. This chemokine-receptor interaction is essential for maintaining skin homeostasis and effective immune responses.
Pathways	The role of CCL27 gets significant attention in the CCR10-CTACK axis which is pivotal in the cutaneous immune system's functioning. Additionally the CCL27/CCR10 pathway has connections to the wider chemokine signaling network that regulates leukocyte trafficking. Through these associations CCL27 is connected to other chemokines and receptors including CCL28 which also shares CCR10 as a receptor highlighting the integrated nature of chemokine function in immune pathways.
Associated diseases and disorders	CCL27 has been linked to various skin conditions such as psoriasis and atopic dermatitis. In psoriasis CCL27 recruits CCR10-expressing T cells to the skin aggravating the inflammatory response. Similarly in atopic dermatitis increased CCL27 levels may contribute to disease pathology by attracting immune cells that perpetuate inflammation. Understanding the interaction between CCL27 and these conditions may offer insight into potential therapeutic targets aimed at modulating chemokine signaling to alleviate symptoms.

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

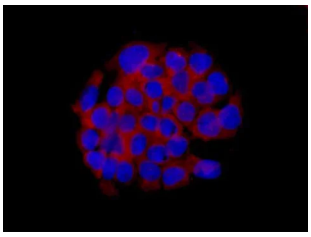
We do not recommend this combination. It is not covered by our product promise.

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.

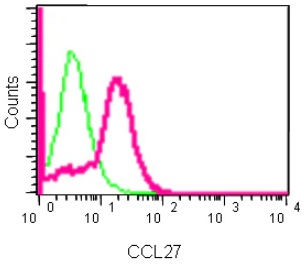
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-CCL27 antibody [EPR8582(2)] (ab186421)

CCL27 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CCL27 antibody

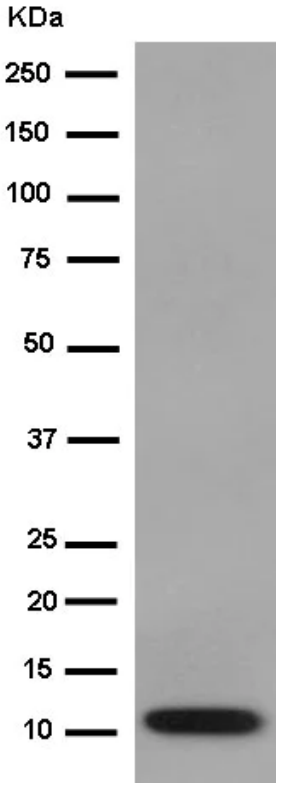
Immunofluorescent analysis of 4% paraformaldehyde-fixed A431 cells labeling CCL27 with ab186421 at 1/250 dilution followed by Goat anti rabbit IgG (Alexa Fluor® 555) secondary antibody at 1/200 dilution. Counter stained with Dapi.



Flow Cytometry (Intracellular) - Anti-CCL27 antibody [EPR8582(2)] (ab186421)

CCL27 Flow Cytometry (Intracellular) staining using rabbit Anti-CCL27 antibody

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed HACAT cells labeling CCL27 with ab186421 at 1/320 dilution (red) compared to a Rabbit monoclonal IgG isotype control (green), followed by Goat anti rabbit IgG (FITC) secondary antibody at 1/150 dilution.



Western blot - Anti-CCL27 antibody [EPR8582(2)] (ab186421)

All lanes:
Western blot - Anti-CCL27 antibody [EPR8582(2)] (ab186421) at 1/5000 dilution

All lanes:
Human CCL27 recombinant protein at 0.01 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 13 kDa

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