abcam

ab203134

Anti-Involucrin antibody [EPR13060(N)] - BSA and Azide free

Recombinant | RabMAb

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	EPR13060(N)
Purification technique	Affinity purification Protein A
Concentration	1.056 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	-

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information IVL

Function	Part of the insoluble cornified cell envelope (CE) of stratified squamous epithelia.

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

ab203134 is the carrier-free version of ab184969.

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.

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.

Supplementary info

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

Activity summary	Involucrin also known as involucrine envocrin or ivrn is a protein with a mass of approximately 68 kDa. You will find involucrin expressed mainly in the suprabasal layers of the stratified squamous epithelia including epidermis tongue and esophagus. This protein becomes cross-linked to form the cornified cell envelope (CCE) in the upper layers of the skin an essential structure for epidermal differentiation and maintenance of skin barrier function.
Biological function summary	Involucrin serves as a critical substrate in the formation of the CCE by providing reactive sites for cross-linking with other proteins like loricrin and small proline-rich proteins. This cross-linking process occurs due to the action of transglutaminases which bond glutamine residues of involucrin with lysine residues in other proteins reinforcing the skin's protective barrier. Involucrin is a part of the protein network integral to keratinocyte terminal differentiation playing a distinctive role in the formation of a resilient and impermeable skin surface.
Pathways	Involucrin contributes directly within the epidermal differentiation complex (EDC) supporting the skin barrier's structural stability and resilience. The protein prominently acts in the terminal differentiation pathway in conjunction with other structural proteins such as filaggrin and keratins. This pathway forms a protective barrier that resists mechanical stress and environmental insults functioning together to provide a robust defense against external factors.
Associated diseases and disorders	Involucrin's role is highlighted in conditions like psoriasis and ichthyosis where skin barrier formation is disrupted. Aberrant expression or modification of involucrin can lead to compromised barrier integrity leading to these skin disorders. It relates closely to filaggrin in these conditions as both are essential for barrier function and mutations in these proteins can exacerbate skin pathologies. Understanding these connections helps us evaluate potential therapeutic strategies for skin barrier-related diseases.

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

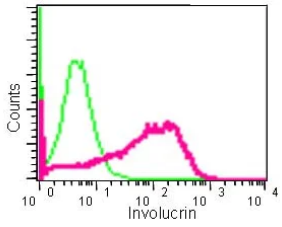
We do not recommend this combination. It is not covered by our product promise.

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.

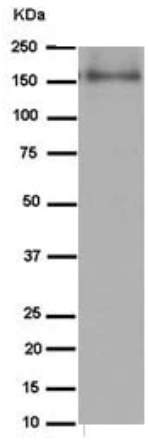
3 product images



Flow Cytometry (Intracellular) - Anti-Involucrin antibody [EPR13060(N)] - BSA and Azide free (ab203134)

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

This data was developed using ab184969, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of Involucrin expression in paraformaldehyde-fixed HACAT cells using ab184969 at 1/40 dilution (red) and a rabbit IgG as negative control (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Western blot - Anti-Involucrin antibody [EPR13060(N)] - BSA and Azide free (ab203134)

Involucrin Western blot staining of Human fetal skin tissue lysate using rabbit Anti-Involucrin antibody

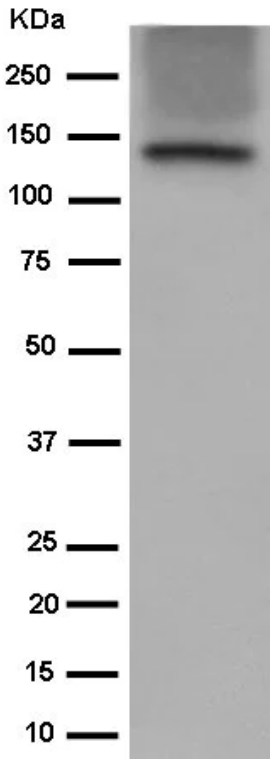
This data was developed using ab184969, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Involucrin antibody [EPR13060(N)] - C-terminal (ab184969) at 1/10000 dilution

All lanes:
Human fetal skin tissue lysate at 10 µg

Secondary

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

Predicted band size: 68 kDa



Western blot - Anti-Involucrin antibody [EPR13060(N)] - BSA and Azide free (ab203134)

Involucrin Western blot staining of HT-1080 cell lysate using rabbit Anti-Involucrin antibody

This data was developed using ab184969, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Involucrin antibody [EPR13060(N)] - C-terminal (ab184969) at 1/50000 dilution

All lanes:
HT-1080 cell lysate at 20 µg

Secondary

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

Predicted band size: 68 kDa

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