

Product datasheet

Anti-Filaggrin antibody [FLG01] ab3137

★★★★★ 1 Abreviews 6 References 3 Images

Overview

Product name	Anti-Filaggrin antibody [FLG01]
Description	Mouse monoclonal [FLG01] to Filaggrin
Host species	Mouse
Tested applications	Suitable for: IHC-Fr, Flow Cyt, IHC-P
Species reactivity	Reacts with: Human
Positive control	Skin.
General notes	Molecular weight of Filaggrin = 38 kDa (Filaggrin) and 40 kDa (Pro Filaggrin).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituents: 0.0268% PBS, 0.2% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	FLG01
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab3137** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr	★★★★★	1/200.

Application	Abreviews	Notes
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Flow Cyt

Use at an assay dependent concentration.

[ab170190](#) - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

IHC-P

Use at an assay dependent concentration.

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.

Target

Function

Aggregates keratin intermediate filaments and promotes disulfide-bond formation among the intermediate filaments during terminal differentiation of mammalian epidermis.

Tissue specificity

Keratohyalin granules.

Involvement in disease

Ichthyosis vulgaris

Dermatitis atopic 2

Sequence similarities

Belongs to the S100-fused protein family.

Contains 2 EF-hand domains.

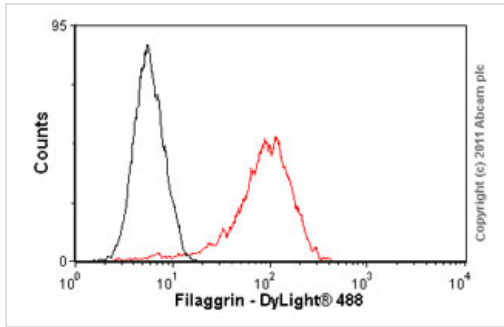
Contains 23 filaggrin repeats.

Post-translational modifications

Filaggrin is initially synthesized as a large, insoluble, highly phosphorylated precursor containing many tandem copies of 324 AA, which are not separated by large linker sequences. During terminal differentiation it is dephosphorylated and proteolytically cleaved. The N-terminal of the mature protein is heterogeneous, and is blocked by the formation of pyroglutamate.

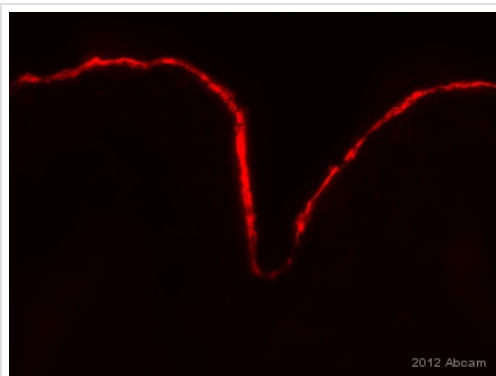
Undergoes deimination of some arginine residues (citrullination).

Images



Flow Cytometry - Anti-Filaggrin antibody [FLG01]
(ab3137)

Overlay histogram showing A431 cells stained with ab3137 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab3137, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in A431 cells fixed with 100% methanol (5 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

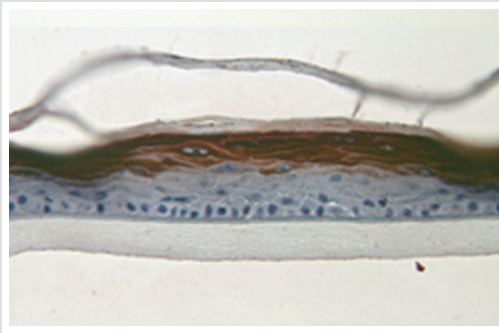


Immunohistochemistry (Frozen sections) - Anti-Filaggrin antibody [FLG01] (ab3137)

This image is courtesy of an anonymous Abreview

ab3137 staining Filaggrin in Human skin tissue by Immunohistochemistry (Frozen sections).

Tissue was fixed with paraformaldehyde, blocked with 1% BSA for 30 minutes at 25°C and permeabilized with 0.2% Triton X-100. Samples were incubated with primary antibody (1/200 in diluent) for 1 hour. An AlexaFluor®594-conjugated goat anti-mouse IgG polyclonal (1/1000) was used as the secondary antibody.



Immunohistochemical analysis of cultured Human keratinocytes isolated from neonatal foreskin, staining Filaggrin with ab3137. Antigen retrieval was performed via heat mediation in citrate buffer, blocked in 3% BSA for 20 min, before incubating with primary antibody overnight at 4°C.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Filaggrin antibody

[FLG01] (ab3137)

Image from Benavente CA et al., PLoS One. 2012;7(7):e42276. Epub 2012 Jul 31. Fig 3.; doi:10.1371/journal.pone.0042276; July 31, 2012, PLoS ONE 7(7): e42276.

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