

Product Datasheet

Loricrin Antibody NBP1-33610

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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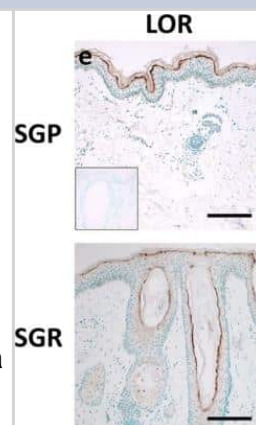
NBP1-33610

Loricrin Antibody

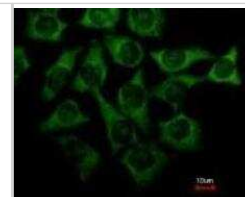
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	26 kDa
Product Description	
Host	Rabbit
Gene ID	4014
Gene Symbol	LORICRIN
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (87%).
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Loricrin. The exact sequence is proprietary.
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Simple Western 1:50, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000
Application Notes	See Simple Western Antibody Database for Simple Western validation: Tested in NHEK human normal epidermal keratinocytes, separated by Size, antibody dilution of 1:50

Images

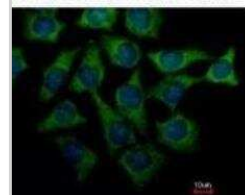
Immunohistochemistry: Loricrin Antibody [NBP1-33610] - Prominent differences in the expressions of innate immune and barrier molecules between sebaceous gland poor (SGR) and sebaceous gland rich (SGP) skin regions. Representative images for immunostaining and quantification of epidermal levels of LOR in SGP and SGR skin sections. Images of negative control stainings are shown in the bottom left corner of SGP immunostainings. Size bars=100um. The graphs show the mean +/- SEM of measured protein levels (*p<0.05; **p<0.01; ***p<0.001, as determined by Mann-Whitney U-test). Image collected and cropped by CiteAb from the following publication ([frontiersin.org/articles/10.3389/fimmu.2018.00424/full](https://www.frontiersin.org/articles/10.3389/fimmu.2018.00424/full)), licensed under a CC-BY license.



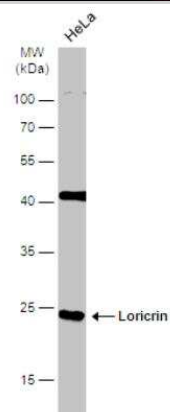
Immunocytochemistry/Immunofluorescence: Loricrin Antibody [NBP1-33610] - Analysis of methanol-fixed Hep3B, using antibody at 1:500 dilution.



Costained with Hoechst 33342



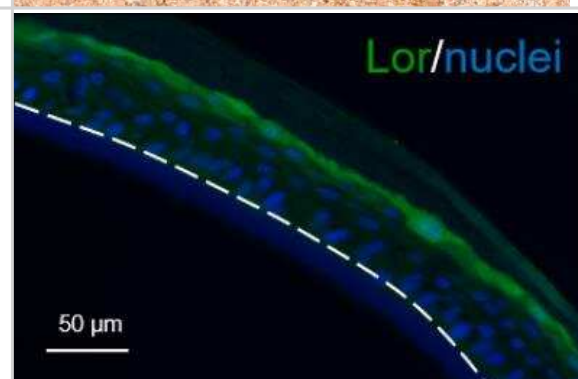
Western Blot: Loricrin Antibody [NBP1-33610] - Whole cell extract (30 ug) was separated by 12% SDS-PAGE, and the membrane was blotted with Loricrin antibody [N1], N-term diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



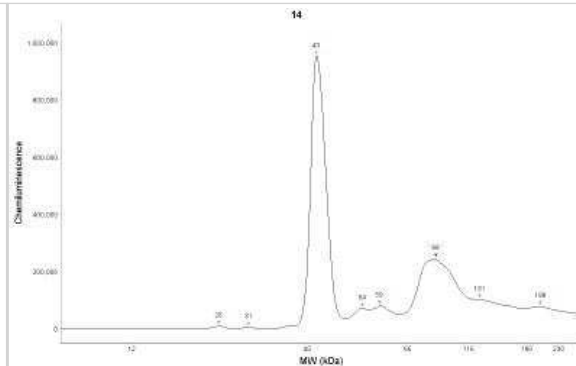
Immunohistochemistry-Paraffin: Loricrin Antibody [NBP1-33610] - HBL438 xenograft. Loricrin antibody [N1], N-term dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



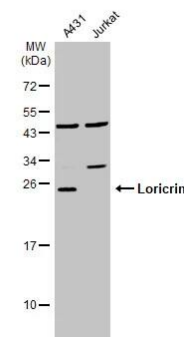
Immunohistochemistry-Paraffin: Loricrin Antibody [NBP1-33610] - Reconstructed human epidermis tissues were embedded in paraffin. After successive baths in xylene and ethanol, antigen was retrieved using warm citrate (for 30 min). Specimens were incubated overnight with the primary antibody (1:100 dilution). Blue staining corresponds to nuclei while loricrin is visible in green. IHC-P image submitted by a verified customer review.



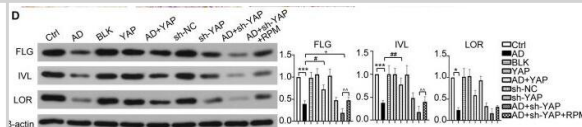
Simple Western: Loricrin Antibody [NBP1-33610] - NHEK human normal epidermal keratinocytes. Antibody dilution of 1:50. Protein concentration of 450 ug/mL. Detection is chemiluminescence. Simple Western image submitted by a verified customer review.



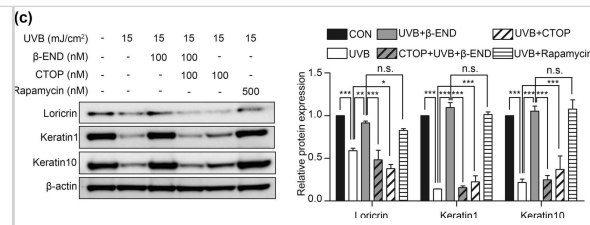
Western Blot: Loricrin Antibody [NBP1-33610] - Various whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with Loricrin antibody [N1], N-term (NBP1-33610) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



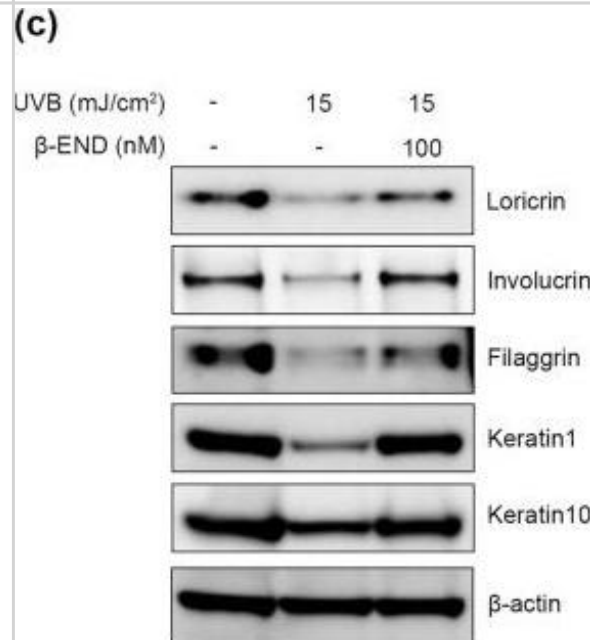
The effect of YAP expression on skin barrier in AD mice. (A) Trans epidermal water loss (TEWL) and stratum corneum hydration (SCH) of each group. (B) YAP protein expression from immunohistochemistry with the quantification results shown in the graphs ($\times 400$), bar length = 50 μm . $n = 3$. (C) Filaggrin (FLG) protein expression from immunohistochemistry with the quantification results shown in the graphs ($\times 400$), bar length = 50 μm . $n = 3$. (D) FLG, involucrin (IVL), and loricrin (LOR) protein expression from western blot with the quantification results shown in the graphs. (E) YAP, p-YAP, mTOR, and p-mTOR protein expression from western blot with the quantification results shown in the graphs. Ctrl, control mice; AD, atopic dermatitis model mice; BLK, mice injected with empty vector lentivirus; YAP, mice injected with YAP overexpression lentivirus; AD+YAP, atopic dermatitis model mice injected with YAP overexpression lentivirus; sh-NC, mice injected with shRNA-NC lentivirus; sh-YAP, mice injected with YAP shRNA lentivirus; AD+sh-YAP, atopic dermatitis model mice injected with YAP shRNA lentivirus; AD+sh-YAP+RPM, AD+sh-YAP group with topical 0.2% rapamycin ointment. * $P < 0.05$, *** $P < 0.001$ Ctrl v.s. AD; # $P < 0.05$, ### $P < 0.001$ AD+YAP v.s. AD; + $P < 0.05$, +++ $P < 0.001$ AD+sh-YAP v.s. AD; ^^ $P < 0.01$, ^^ $P < 0.001$ AD+sh-YAP+RPM v.s. AD+sh-YAP. Image collected and cropped by CiteAb from the following open publication (<https://www.frontiersin.org/articles/10.3389/fimmu.2025.1681148/full>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



The effect of β -endorphin directly through the u-opioid receptor, and the effect of inhibition of Akt/mTOR signaling on UVB-induced disruption of epidermal homeostasis. (a) NHKs were pre-incubated with 100 nM of CTOP for 30 min before 15 mJ/cm² UVB irradiation and the addition of 100 nM β -endorphin. (b, c) Representative immunoblots and the quantification of the phosphorylation level of proteins in Akt/mTOR signaling pathway (b) and expression levels of differentiation markers (c) showing the reversal effect of β -endorphin is suppressed by 100 nM CTOP treatment and the reversal effect of 500 nM rapamycin treatment in NHKs for 30 min before 15 mJ/cm² UVB irradiation. The original blots are presented in Supplementary Fig. S6. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ compared to the designated group. n.s. means not significant. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-023-49886-5>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Treatment with β -endorphin salvaged UVB irradiation-induced increased proliferation and reduced the expression of epidermal differentiation markers in NHKs. (a) Representative images of 5-ethynyl-2'-deoxyuridine (EdU)-positive cells in keratinocytes after UVB irradiation, followed by β -endorphin treatment for 24 h. DAPI: 4',6-diamidino-2-phenylindole. The histogram shows the quantification of EdU as the percentage of cells with positive staining. (b) NHKs were exposed to 15 mJ/cm² of UVB light, followed by 100 nM β -endorphin treatment for 48 h. RNA was isolated, and the mRNA expression of loricrin, involucrin, filaggrin, keratin 1, and keratin 10 was analyzed using RT-qPCR. Each mRNA level was normalized to that of the ribosomal gene ribosomal protein L13a (RPL13A). (c) Representative immunoblots showing differentiation markers expression levels. The original blots are presented in Supplementary Fig. S4. The protein expression levels of differentiation markers were determined via western blot analysis, and the quantification of these proteins is shown in the histogram. Data are presented as the mean \pm SEM of six independent experiments. # $p < 0.05$, ## $p < 0.01$, ### $p < 0.001$ compared to the non-irradiated group, and * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ compared to the irradiated vehicle-treated group. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-023-49886-5>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Somogyi O, Dajnoki Z, Szabó L et al. New Data on the Features of Skin Barrier in Hidradenitis Suppurativa Biomedicines 2023-01-04 [PMID: 36672635] (Immunocytochemistry/ Immunofluorescence, Human)

Shigehara Y, Okuda S, Nemer G et Al. Mutations in SDR9C7 gene encoding an enzyme for vitamin A metabolism underlie autosomal recessive congenital ichthyosis Hum Mol Genet 2018-02-26 [PMID: 28173123]

Kim, HS;Kim, HJ;Hong, YD;Son, ED;Cho, SY; β -endorphin suppresses ultraviolet B irradiation-induced epidermal barrier damage by regulating inflammation-dependent mTORC1 signaling Scientific reports 2023-12-15 [PMID: 38102220]

Chung S, Kim M, Choi S et al. The advanced 3D lymphatic system for assaying the human cutaneous lymphangiogenesis in the microfluidic platform Research Square 2023-05-04 (Immunocytochemistry/ Immunofluorescence, Human)

Kim HM, Kang YM, Jin BR et al. Morus alba fruits Attenuates Atopic Dermatitis Symptoms and Pathology in vivo and in vitro via the Regulation of Barrier Function, immune response and pruritus Phytomedicine 2022-11-01 [PMID: 36610150] (WB, Mouse)

Gil Ty, Jin BR, An HJ Peucedanum japonicum Thunberg alleviates atopic dermatitis-like inflammation via STAT/MAPK signaling pathways in vivo and in vitro Molecular immunology 2022-02-23 [PMID: 35219015]

Medgyesi B, Dajnoki Z, et al. Rosacea Is Characterized by a Profoundly Diminished Skin Barrier. J Invest Dermatol 2020-10-01 [PMID: 32199994] (IF/IHC, Human)

Lee J, Song K, Jung C Diosmin restores the skin barrier by targeting the aryl hydrocarbon receptor in atopic dermatitis Phytomedicine 2020-11-01 [PMID: 33302042] (WB, Human)

Details:

Human epidermal keratinocytes were analyzed by Western blot.

Beke G, Dajnoki Z, Kapitany A et al. Immunotopographical Differences of Human Skin. Front Immunol. 2018-03-05 [PMID: 29556238] (IHC-P, Human)

Shigehara Y, Okuda S, Nemer G et al. Mutations in SDR9C7 gene encoding an enzyme for vitamin A metabolism underlie autosomal recessive congenital ichthyosis. Hum. Mol. Genet. 2016-08-18 [PMID: 27538420] (ICC/IF, Human)





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Products Related to NBP1-33610

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00004014-P01-10ug	Recombinant Human Loricrin GST (N-Term) Protein

Limitations

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