

Product datasheet

Anti-ALOX12B antibody ab121785

[1 References](#) [2 Images](#)

Overview

Product name	Anti-ALOX12B antibody
Description	Rabbit polyclonal to ALOX12B
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P
Species reactivity	Reacts with: Human
Immunogen	antigen sequence, corresponding to amino acids 423-516 (LYKLLIPHTR YTVQINSIGR AVLLNEGGLS AKGMSLGVEG FAGVMVRALS ELTYDSL YLP NDFVERGVQD LPGYYRDDS LAVWNALEKY VTEI) of Human ALOX12B. Run BLAST with Expasy Run BLAST with NCBI
Positive control	Human skin tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab121785 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
ICC/IF		Use a concentration of 0.25 - 2 µg/ml.
IHC-P		1/10 - 1/20. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Converts arachidonic acid to 12R-hydroperoxyeicosatetraenoic acid (12R-HPETE).

Tissue specificity

Expressed in B-cells, hair follicles, foreskin keratinocytes and adult skin. Also expressed in psoriatic tissue.

Pathway

Lipid metabolism; leukotriene D4 biosynthesis.

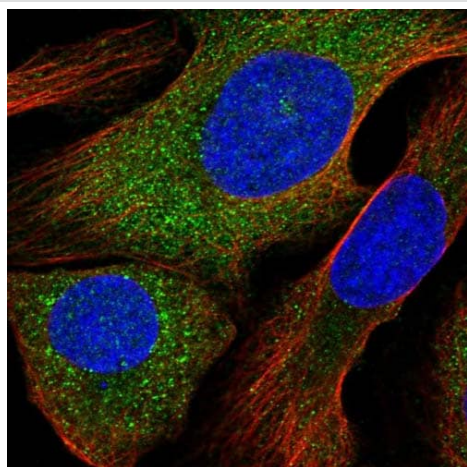
Involvement in disease

Defects in ALOX12B are a cause of non-bullous congenital ichthyosiform erythroderma (NCIE) [MIM:242100]. NCIE is a non-bullous ichthyosis, a skin disorder characterized by abnormal cornification of the epidermis. Most affected individuals are born with a tight, shiny, translucent covering called collodion membrane. The collodion membrane subsequently evolves into generalized scaling and intense redness of the skin. Clinical features are milder than in lamellar ichthyoses and demonstrate a greater variability in the intensity of erythema, size and type of scales. In contrast to lamellar ichthyoses, scales are usually white, fine and powdery, and palms and soles are severely affected. Patients suffer from palmoplantar keratoderma, often with painful fissures, digital contractures, and loss of pulp volume.

Sequence similarities

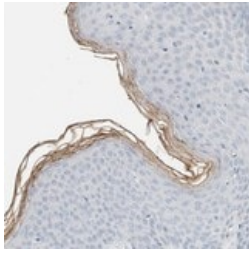
Belongs to the lipoxygenase family.
Contains 1 lipoxygenase domain.
Contains 1 PLAT domain.

Images



Immunofluorescent staining of Human cell line U-2 OS shows positivity in cytoplasm. Recommended concentration of ab121785 1-4 µg/ml. Cells treated with PFA/Triton X-100.

Immunocytochemistry/ Immunofluorescence - Anti-ALOX12B antibody (ab121785)



ab121785, at 1/10 dilution, staining ALOX12B in paraffin-embedded Human skin tissue, by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALOX12B antibody (ab121785)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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