

Product datasheet

Anti-ABCA12 antibody ab154037

[2 Images](#)

Overview

Product name	Anti-ABCA12 antibody
Description	Rabbit polyclonal to ABCA12
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Cow, Chimpanzee, Macaque monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to Human ABCA12 aa 1850-1950 conjugated to Keyhole Limpet Haemocyanin (KLH). Database link: Q86UK0
Positive control	This antibody gave a positive signal within WB in the following tissue lysates: Human Placenta; Mouse Testis; Human Brain; Human Fetal Brain. This antibody gave a positive result in IHC in the following FFPE tissue: Human normal testis

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154037 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-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 293 kDa (predicted molecular weight: 293 kDa).

Target

Function

Probable transporter involved in lipid homeostasis.

Tissue specificity

Mainly expressed in the stomach, placenta, testis and fetal brain.

Involvement in disease

Defects in ABCA12 are the cause of ichthyosis harlequin (HI) [MIM:242500]; also known as harlequin fetus. HI is a very severe skin disorder in which the neonate is born with a thick covering of armor-like scales. The skin dries out to form hard diamond-shaped plaques separated by fissures, resembling 'armor plating'. The normal facial features are severely affected, with distortion of the lips (eclabion), eyelids (ectropion), ears, and nostrils. Affected babies are often born prematurely and rarely survive the perinatal period.

Defects in ABCA12 are the cause of ichthyosis lamellar type 2 (LI2) [MIM:601277]; also known as ichthyosis congenita IIB (ICR2B). LI is a non-bullous ichthyosis, a skin disorder characterized by abnormal cornification of the epidermis. It is one the most severe forms of ichthyoses apparent at birth and persisting throughout life. LI patients are born encased in a tight, shiny, translucent covering called collodion membrane. Over the first weeks of life, the collodion membrane is gradually replaced by generalized large, dark brown, plate-like scales with minimal to no erythroderma. Tautness of facial skin commonly results in ectropion, eclabium and scarring alopecia of the scalp. Common complications are severe heat intolerance and recurrent ear infections.

Sequence similarities

Belongs to the ABC transporter superfamily. ABCA family.
Contains 2 ABC transporter domains.

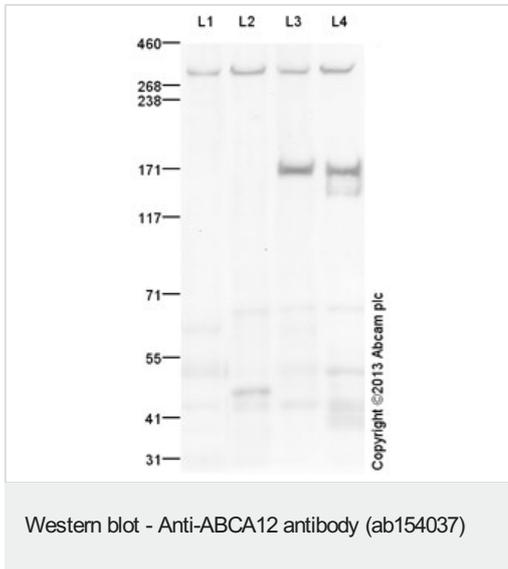
Domain

Multifunctional polypeptide with two homologous halves, each containing an hydrophobic membrane-anchoring domain and an ATP binding cassette (ABC) domain.

Cellular localization

Membrane.

Images



All lanes : Anti-ABCA12 antibody (ab154037) at 1 µg/ml

Lane 1 : Human placenta tissue lysate - total protein ([ab29745](#))

Lane 2 : Testis (Mouse) Tissue Lysate

Lane 3 : Brain (Human) Tissue Lysate - fetal normal tissue ([ab29467](#))

Lane 4 : Human brain tissue lysate - total protein ([ab29466](#))

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

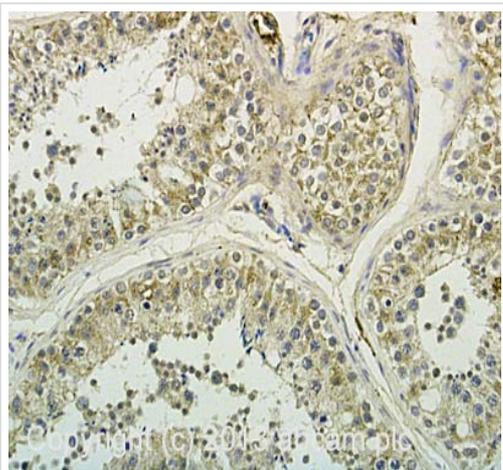
Predicted band size: 293 kDa

Observed band size: 293 kDa

Additional bands at: 172 kDa (possible non-specific binding)

Exposure time: 3 minutes

This blot was produced using a 3-8% Tris Acetate gel under the TA buffer system. The gel was run at 150V for 60 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab154037 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABCA12 antibody (ab154037)

IHC image of ABCA12 staining in Human normal testis formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab154037, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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