abcam

Product datasheet

Anti-ABCA12 antibody ab98976

1 Abreviews 1 Image

Overview

Product name	Anti-ABCA12 antibody
Description	Rabbit polyclonal to ABCA12
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Horse, Guinea pig, Cow, Cat, Dog
Immunogen	Synthetic peptide corresponding to a region within internal sequence amino acids 1979-2028 (TTIFKMLTGD IIPSSGNILI RNKTGSLGHV DSHSSLVGYC PQEDALDDLV) of Human ABCA12 (NP_056472; UniProt ID: Q86UK0 isoform 2). Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Human fetal stomach lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab98976** 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

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WB	★★★☆☆	Use a concentration of 1 µg/ml. Predicted molecular weight: 257 kDa.Can be blocked with ABCA12 peptide (ab127886). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

Function
Probable transporter involved in lipid homeostasis.

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

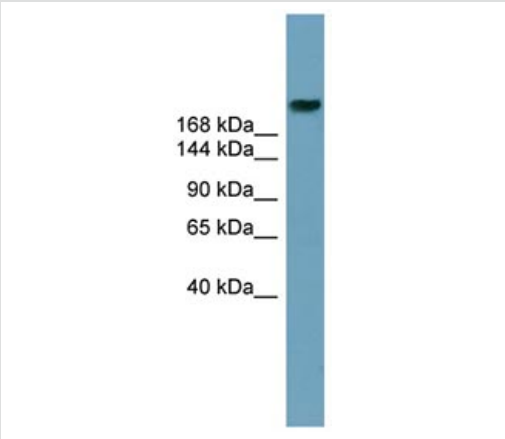
Involvement in disease
Defects in ABCA12 are the cause of ichthyosis harlequin (HI) [MIM:242500]; also known as harlequin fetus. HI is a very severe skin disorder in which the neonate is born with a thick covering of armor-like scales. The skin dries out to form hard diamond-shaped plaques separated 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



Western blot - Anti-ABCA12 antibody (ab98976)

Anti-ABCA12 antibody (ab98976) at 1 µg/ml +
Human fetal stomach lysate at 10 µg

Predicted band size: 257 kDa

Gel concentration: 6-18%

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