

ABCAC Rabbit pAb

CatalogNo: YN0472

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- IHC, IF

MW

- 285kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:50-300

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human protein . at AA range: 2170-2250

Specificity ABCAC Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name ABCA12 ABC12

Protein Name ATP-binding cassette sub-family A member 12 (ATP-binding cassette transporter 12) (ATP-binding cassette 12)

Organism	Gene ID	UniProt ID
Human	26154 ;	Q86UK0 ;

Cellular Localization

Cytoplasmic vesicle, secretory vesicle membrane ; Multi-pass membrane protein . Golgi apparatus membrane . Localizes in the limiting membrane of the lamellar granules (LGs) (PubMed:17927575). Trafficks from the Golgi apparatus to the lamellar granules (LGs) at the cell periphery in the uppermost granular layer keratinocytes where ABCA12-positive LGs fuse with the keratinocyte-cell membrane to secrete their lipid content to the extracellular space of the stratum corneum (PubMed:16007253, PubMed:17927575). Co-localizes through the Golgi apparatus to the cell periphery with glucosylceramide (PubMed:17927575). .

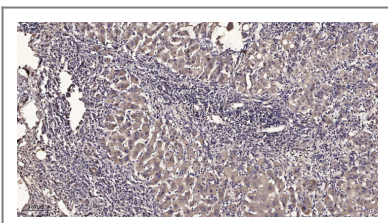
Tissue specificity

Mainly expressed in the stomach, placenta, testis and fetal brain (PubMed:12697999). Expressed in the upper epidermal layers, mainly the granular layers, of skin (PubMed:16007253, PubMed:17591952, PubMed:17927575). Expressed throughout the normal interfollicular epidermis with prominent expression in the stratum granulosum (PubMed:19179616). Expressed in alpha and beta cells of pancreatic islets (PubMed:32072744).

Function

Alternative products:Additional isoforms seem to exist,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.,Disease: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.,Domain:Multifunctional polypeptide with two homologous halves, each containing an hydrophobic membrane-anchoring domain and an ATP binding cassette (ABC) domain.,Function:Probable transporter involved in lipid homeostasis.,similarity:Belongs to the ABC transporter family. ABCA subfamily.,similarity:Contains 2 ABC transporter domains.,tissue specificity:Mainly expressed in the stomach, placenta, testis and fetal brain.,

Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

| Contact information

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ABCAC Rabbit pAb

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