Datasheet for ABIN969058

anti-KRT17 antibody

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Overview

Quantity:	100 µL
Target:	KRT17
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Purified recombinant fragment of CK17 expressed in E. coli.
Clone:	3B12
Isotype:	IgG2b
Purification:	purified

Target Details

Target:	KRT17
Alternative Name:	CK17 (KRT17 Products)
Background:	Description: CK17, also known as KRT17, it is the type I intermediate filament chain keratin 17. It is found in nail beds, hair follicles, sebaceous glands, and other epidermal appendages. Mutations in this gene lead to Jackson-Lawler type pachyonychia congenita and steatocystoma multiplex. May play a role in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. May be a marker of basal

Target Details

	cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "stem cells". May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation. Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state. Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway. Involved in tissue repair. Aliases: PC, K17, PC2, PCHC1, KRT17
Molecular Weight:	49 kDa
Gene ID:	3872
HGNC:	3872

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

Publications

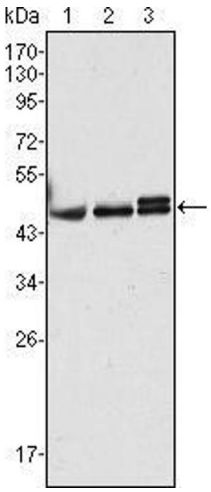
Product cited in:	Leitinger, Kwan: "The discoidin domain receptor DDR2 is a receptor for type X collagen." in: **Matrix biology : journal of the International Society for Matrix Biology**, Vol. 25, Issue 6, pp. 355-64, (2006) (PubMed). Shyu, Chao, Wang, Kuan: "Regulation of discoidin domain receptor 2 by cyclic mechanical

Publications

stretch in cultured rat vascular smooth muscle cells." in: **Hypertension**, Vol. 46, Issue 3, pp. 614-21, (2005) (PubMed).

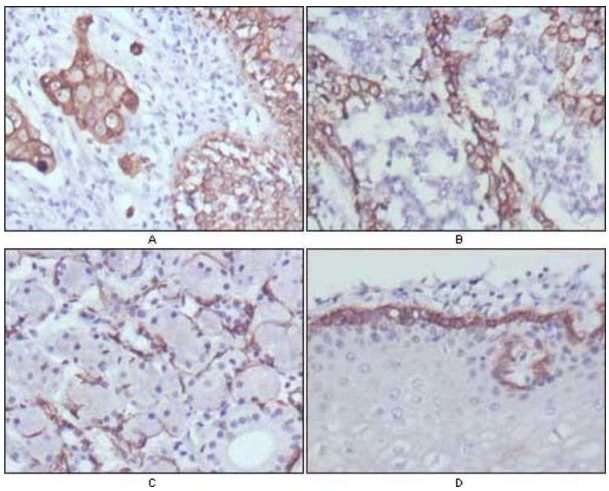
Neale, Kenny, Gershwin: "Cloning and sequencing of protein kinase cDNA from harbor seal (Phoca vitulina) lymphocytes." in: **Clinical & developmental immunology**, Vol. 11, Issue 2, pp. 157-63, (2004) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis using CK17 mouse mAb against Hela (1), MCF-7 (2) and A431 (3) cell lysate.



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded human lung cancer (A), endometrial carcinoma (B), sublingual gland (C) and esophagus (D) tissues using CK17 mouse mAb with DAB staining.