CK17 Mouse Monoclonal Antibody

E10-20363

Background: 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 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.

Catalog Number: E10-20363

Amount: 100μg/100μl

Clone Number: 3B12

Species: Mouse IgG2b

MW: 49kDa

Aliases: PC; K17; PC2; PCHC1; KRT17

Entrez Gene: 3872

Immunogen: Purified recombinant fragment of CK17 expressed in E. Coli.

Storage: Store at 4 °C for 1 month. For long term storage, store at -20 °C.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB,IHC,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB. 1/500 - 1/2000.IHC; 1/200 - 1/1000.ELISA. Propose dilution 1/10000.

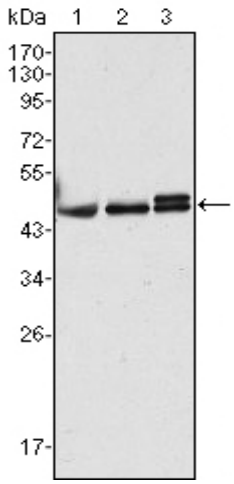

Figure 1. Western blot analysis using CK17 mouse mAb against Hela (1), MCF-7 (2) and A431 (3) cell lysate.

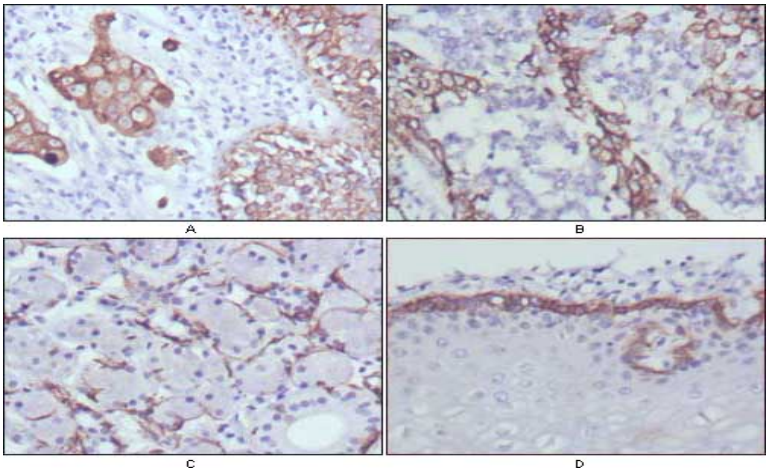

Figure 2. Immunohistochemical analysis of paraffin-embedded human lung cancer (A), endometrial carcinoma (B), sublingual gland (C) and esophagus (D) tissues using CK17 mouse mAb with DAB staining.

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