Cytokeratin 5 Mouse Monoclonal Antibody

E10-20142

Background: CK5 (keratin 5) is a member of the keratin gene family. Biochemically, most members of the CK family fall into one of two classes, type I (acidic polypeptides) and type II (basic polypeptides). The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. At least one member of the acidic family and one member of the basic family is expressed in all epithelial cells. Cytokeratin 5 is expressed in normal basal cells. Mutations of the Cytokeratin5 gene (KRT5) have been shown to result in the autosomal dominant disorderepidermolysis bullosa (EB). Defects in KRT5 are a cause of epidermolysis bullosa simplex.

Catalog Number: E10-20142

Amount: 100µg/100µl

Clone Number: 3E2F1

Species: Mouse IgG1

Aliases: K5; DDD; EBS2; KRT5A; KRT5

Entrez Gene: 3852

Immunogen: Purified recombinant fragment of CK5 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.

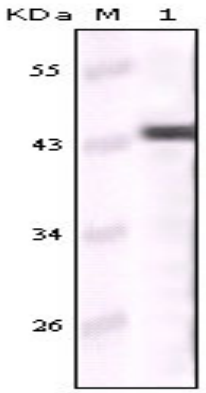

Figure 1: Western blot analysis using CK5 mouse mAb against truncated CK5 recombinant protein

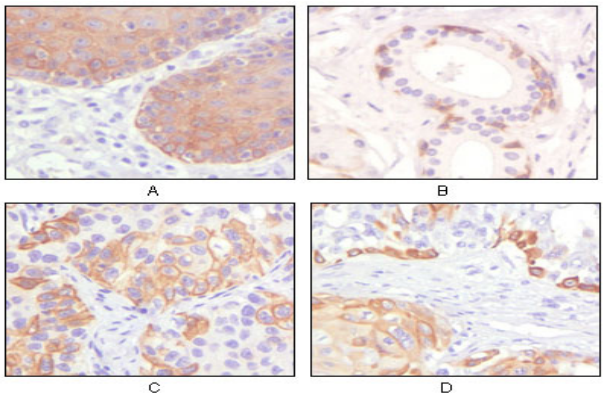

Figure 2: Immunohistochemical analysis of paraffin-embedded human esophagus epithelium (A), salivary gland basal cell (B), lung squamous cell carcinoma (C), endometrium admosquamous carcinoma (D), showing cytoplasmic and membrane localization using CK5 mouse mAb with DAB staining.

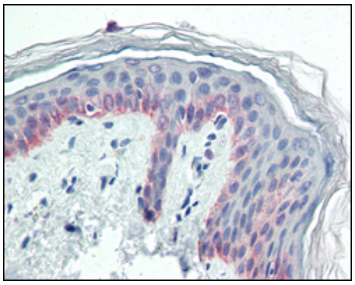

Figure 3: Immunohistochemical analysis of paraffin-embedded human skin tissues using CK5 mouse mAb.

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