IMMUNOLOGICAL SCIENCES Product Data Sheet

MABN81568 **CK5 Mouse Monoclonal Antibody**

Size: 100 ug

Concentration: 1mg/ml

Clone: IS-27

Source: Mouse

Isotype: IgG1

Purification: Affinity purification

Cross-Reactivity: Human

Synonyms: KRT5; K5; DDD; DDD1; EBS2; KRT5A

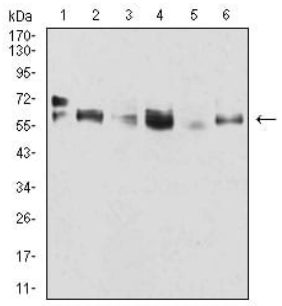
Background: The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13.

Molecular Weight: 62.4kDa

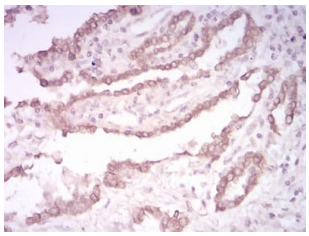
Applications:
Western Blot: 1:500-1:2000
Immunohistichemistry (paraffin-embedded tissues): 1:200-1:1000
Immunocytochemistry: 1:200-1:1000
Flow Cytometry: 1:200- 1:400

Buffer: Purified antibody in PBS with 0.05% sodium azide.

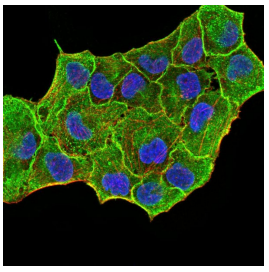
Storage: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.



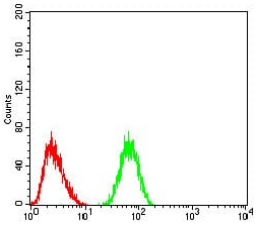
Western blot analysis using CK5 mouse mAb against A431 (1), MCF-7 (2), SK-Br-3 (3), Hela (4), Lncap (5), and HepG2 (6) cell lysate.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using CK5 mouse mAb with DAB staining.



Immunofluorescence analysis of MCF-7 cells using CK5 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



Flow cytometric analysis of HeLa cells using CK5 mouse mAb (green) and negative control (red).

Antibody retrieval protocol for Immunohistochemistry (paraffin-embedded tissues):
Antigen retrieval solution: EDTA, pH 9.0;
2 optional retrieval methods:
① Heat retrieval for 20-30 minutes;
② High-pressure retrieval, 2-3 minutes after steam generation.

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