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# Anti-Cytokeratin 10 Antibody

Mouse Monoclonal Antibody
Catalog # AH13351

## Product Information

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| **Application** | IHC-P, IF, FC |
| **Primary Accession** | P13645 |
| **Other Accession** | 99936 |
| **Reactivity** | Human, Dog |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG1, kappa |
| **Clone Names** | SPM623 |
| **Calculated MW** | 58827 |

## Additional Information

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| **Gene ID** | 3858 |
| **Other Names** | BCIE, BIE, EHK, Keratin Type I Cytoskeletal 10, KRT10 |
| **Application Note** | Flow Cytometry (0.5-1ug/million cells in 0.1ml); Immunofluorescence (0.5-1ug/ml); ,Immunohistology (Formalin-fixed) (0.1-0.2ug/ml for 30 min at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined. |
| **Format** | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Storage** | Store at 2 to 8°C.Antibody is stable for 24 months. |
| **Precautions** | Anti-Cytokeratin 10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

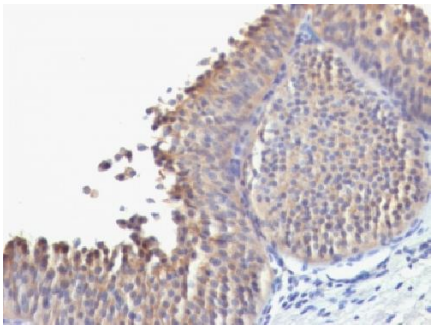
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| **Name** | KRT10 ( HGNC:6413) |
| **Synonyms** | KPP |
| **Function** | Structural component of intermediate filaments in suprabasal keratinocytes of stratified epithelia. Forms heteropolymers primarily with the type II keratin KRT1, and also with KRT2, assembling into intermediate filament networks that support terminal differentiation, mechanical resilience, and epidermal |

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| | barrier formation. |
| **Cellular Location** | Secreted, extracellular space. Cell surface. Cytoplasm |
| **Tissue Location** | Seen in all suprabasal cell layers including stratum corneum. Expressed on the surface of lung cell lines (PubMed:19627498). Localized on the surface of desquamated nasal epithelial cells (at protein level) (PubMed:12427098) |

## Background

This MAb recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10). CK10 is expressed in all suprabasal layers of the epidermis. In the epidermis, expression of CK10 strictly parallels the extent of differentiation; it is absent in the basal layer, appears in the first suprabasal layers and increases in concentration towards the granular layer. However, CK10 is rarely detected in early stages of vulvar squamous carcinomas (tumors less than 2 cm, clinical stage I) regardless of the tumor grade. In larger and more advanced tumors (greater than 2 cm, clinical stages II and III), CK10 is detected very frequently. Expression of CK10 is related to maturation of malignant keratinocytes, being preferentially detected in more-differentiated parts.

## Images



Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Cytokeratin 10 Monoclonal Antibody (SPM623).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.