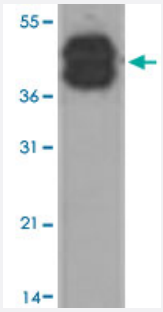
# Acidic Cytokeratin monoclonal antibody, clone SPM115

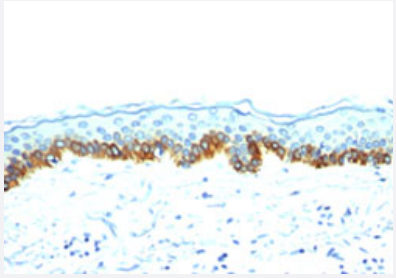
Catalog # MAB12076 Size 100 ug

## Applications




### Western Blot (Cell lysate)

Western blot analysis of VIM in A-431 cell lysate with Acidic Cytokeratin monoclonal antibody, clone SPM115 (Cat# MAB12076).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human skin with Acidic Cytokeratin monoclonal antibody, clone SPM115 (Cat# MAB12076).

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against Acidic Cytokeratin. |
| **Immunogen** | Solubilized keratin extract from human stratum corneum. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 40-57 |
| **Reactivity** | Human, Mouse, Rabbit, Rat |
| **Specificity** | This monoclonal antibody recognizes KRT10 (56.5kDa), KRT14 (50kDa), KRT15 (50kDa), KRT16 ( 48kDa), and KRT19 (40kDa). |

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|---|---|
| **Form** | Liquid |
| **Purification** | Protein A/G purification |
| **Isotype** | IgG1, kappa |
| **Recommend Usage** | Immunohistochemistry (0.5-1 ug/mL)<br>Western Blot (0.5-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.05% BSA, 0.05% sodium azide). |
| **Storage Instruction** | Store at 4°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Cell lysate)

  Western blot analysis of VIM in A-431 cell lysate with Acidic Cytokeratin monoclonal antibody, clone SPM115 (Cat# MAB12076).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human skin with Acidic Cytokeratin monoclonal antibody, clone SPM115 (Cat# MAB12076).

## Gene Info — KRT10

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|---|---|
| **Entrez GeneID** | 3858 |
| **Gene Name** | KRT10 |
| **Gene Alias** | CK10, K10, KPP |
| **Gene Description** | keratin 10 |
| **Omim ID** | 113800 148080 600648 607602 |
| **Gene Ontology** | Hyperlink |

| | |
|---|---|
| **Gene Summary** | This gene encodes a member of the type I (acidic) cytokeratin family, which belongs to the superf amily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. Mutations in this gene are associated with epidermol ytic hyperkeratosis. This gene is located within a cluster of keratin family members on chromosom e 17q21. [provided by RefSeq |
| **Other Designations** | cytokeratin 10 |

## Gene Info — KRT14

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|---|---|
| **Entrez GeneID** | 3861 |
| **Gene Name** | KRT14 |
| **Gene Alias** | CK14, EBS3, EBS4, K14, NFJ |
| **Gene Description** | keratin 14 |
| **Omim ID** | 125595 131800 148066 161000 601001 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a member of the keratin family, the most diverse group of intermediate filame nts. This gene product, a type I keratin, is usually found as a heterotetramer with two keratin 5 mol ecules, a type II keratin. Together they form the cytoskeleton of epithelial cells. Mutations in the ge nes for these keratins are associated with epidermolysis bullosa simplex. At least one pseudogen e has been identified at 17p12-p11. [provided by RefSeq |
| **Other Designations** | cytokeratin 14\|keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebner) |

## Gene Info — KRT15

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|---|---|
| **Entrez GeneID** | 3866 |
| **Gene Name** | KRT15 |
| **Gene Alias** | CK15, K15, K1CO |
| **Gene Description** | keratin 15 |
| **Omim ID** | 148030 |
| **Gene Ontology** | Hyperlink |

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|---|---|
| **Gene Summary** | The protein encoded by this gene is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains and are clustered in a region on chromosome 17q21.2. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000165060\|cytokeratin 15\|keratin-15, basic\|keratin-15, beta\|type I cytoskeletal 15 |

## Gene Info — KRT16

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|---|---|
| **Entrez GeneID** | 3868 |
| **Gene Name** | KRT16 |
| **Gene Alias** | CK16, K16, K1CP, KRT16A, NEPPK |
| **Gene Description** | keratin 16 |
| **Omim ID** | 144200 148067 167200 600962 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the keratin gene family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains and are clustered in a region of chromosome 17q12-q21. This keratin has been coexpressed with keratin 14 in a number of epithelial tissues, including esophagus, tongue, and hair follicles. Mutations in this gene are associated with type 1 pachyonychia congenita, non-epidermolytic palmoplantar keratoderma and unilateral palmoplantar verrucous nevus. [provided by RefSeq |
| **Other Designations** | cytokeratin 16\|focal non-epidermolytic palmoplantar keratoderma\|keratin, type I cytoskeletal 16 |

## Gene Info — KRT19

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|---|---|
| **Entrez GeneID** | 3880 |
| **Gene Name** | KRT19 |
| **Gene Alias** | CK19, K19, K1CS, MGC15366 |
| **Gene Description** | keratin 19 |
| **Omim ID** | 148020 |
| **Gene Ontology** | Hyperlink |

| | |
|---|---|
| **Gene Summary** | The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into c ytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidi c cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. [provided by RefSeq |
| **Other Designations** | 40-kDa keratin intermediate filament\|cytokeratin 19\|keratin, type I cytoskeletal 19\|keratin, type I, 4 0-kd |

## Disease

- Cleft Lip
- Cleft Palate
- Liver Cirrhosis