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# Cytokeratin, pan (Epithelial Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone KRTL/1077 + KRTH/1076 ]
Catalog # AH12903

## Product Information

| | |
|---|---|
| **Application** | IF, FC, IHC-P |
| **Primary Accession** | Q7Z794 |
| **Other Accession** | 374454 (KRT77), 51350 (KRT76), Q01546 (KRT76)Unigene334989 (KRT77), 654392 (KRT76)Human Gene SymbolKRT77, KRT76Hu Chromosome Location17q21.2 (KRT77), 12q13.13 (KRT76)SynonymK1B, KRT1B, K77, CK-1B, Keratin 1B, Keratin-77, Cytokeratin-1B, KRT2B, KRT2P |
| **Reactivity** | Human, Rat |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG's |
| **Clone Names** | KRTL/1077 + KRTH/1076 |
| **Calculated MW** | 61901 |

## Additional Information

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|---|---|
| **Gene ID** | 374454 |
| **Other Names** | Keratin, type II cytoskeletal 1b, Cytokeratin-1B, CK-1B, Keratin-77, K77, Type-II keratin Kb39, KRT77, KRT1B |
| **Application Note** | IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A |
| **Storage** | Store at 2 to 8°C.Antibody is stable for 24 months. |
| **Precautions** | Cytokeratin, pan (Epithelial Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | KRT77 ( HGNC:20411) |
| **Synonyms** | KRT1B |
| **Function** | Structural component of intermediate filaments in epithelial cells of stratified epithelia. Assembles into heteropolymers with a type I keratin, forming keratin intermediate filament networks contributing to epithelial integrity. |
| **Tissue Location** | Expressed in skin.. |

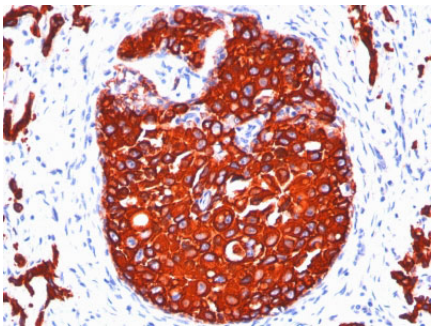
## Background

Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include CK1, CK3, CK4, CK5, CK6, CK8, CK10, CK14, CK15, CK16, and CK19. Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. KRTL/KRTH is a broad spectrum anti pan-cytokeratin antibody cocktail, which differentiates epithelial tumors from non-epithelial tumors e.g. squamous vs. adenocarcinoma of the lung, liver carcinoma, breast cancer, and esophageal cancer. It has been used to characterize the source of various neoplasms and to study the distribution of cytokeratin containing cells in epithelia during normal development and during the development of epithelial neoplasms. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

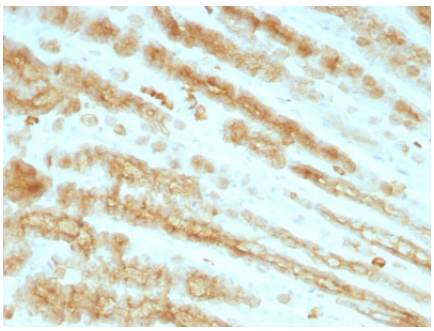
## References

Woodock-Mitchell J et. al. Journal of Cell Biology 1982;95:580-8.,2. Tseng SCG et. al. Cell 1982; 30361

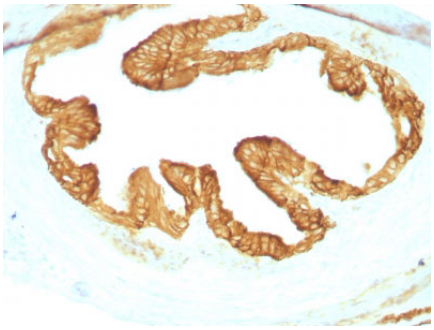
## Images



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Cytokeratin, pan Monoclonal Antibody cocktail (KRTL/1077 + KRTH/1076).



Formalin paraffin Rat Stomach stained with Cytokeratin, pan Monoclonal Antibody cocktail (KRTL/1077 + KRTH/1076).



Formalin-fixed, paraffin-embedded Rat Oviduct with Cytokeratin, pan Monoclonal Antibody cocktail (KRTL/1077 + KRTH/1076).

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