10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Mouse Monoclonal Antibody [Clone PAN-CK (Cocktail) ]
Catalog # AH12926

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, IF, FC |
| **Primary Accession** | Q7Z794 |
| **Other Accession** | 374454 (KRT77), 51350 (KRT76), 334989 (KRT77), 654392 (KRT76), Q01546 (KRT76) |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Monkey, Chicken, Bovine, Dog |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG's, kappa |
| **Clone Names** | PAN-CK (Cocktail) |
| **Calculated MW** | 61901 |

## Additional Information

| | |
|---|---|
| **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** | WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50 |
| **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

| | |
|---|---|
| **Name** | KRT77 |
| **Synonyms** | KRT1B |
| **Tissue Location** | Expressed exclusively in skin. |

## Background

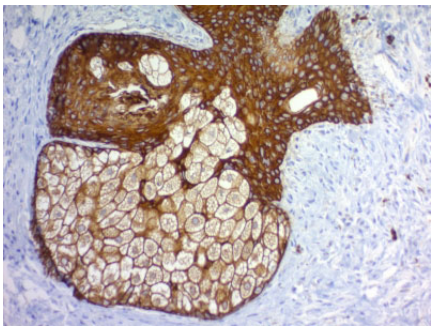
Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 55kDa (CK7); 52kDa

(CK8); 56.5kDa (CK10); 53kDa (CK13); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 46kDa (CK17); 45kDa (CK18) and 40kDa (CK19). Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. KRT-PAN 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 is useful in characterizing 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 shows high sensitivity in the recognition of epithelial cells and carcinomas.

## References

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

## Images



Formalin-fixed, paraffin-embedded human Skin stained with Cytokeratin, pan Monoclonal Antibody cocktail (PAN-CK).