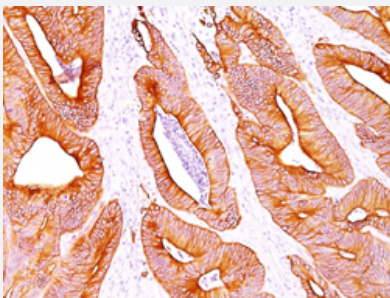


# Pan Cytokeratin monoclonal antibody, clone AE1 + AE3

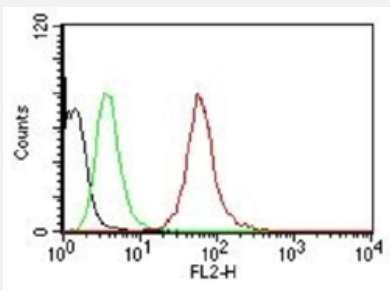
Catalog # MAB11311      Size 100 ug

## Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) analysis of human colon carcinoma with Pan Cytokeratin monoclonal antibody, clone AE1 + AE3 (Cat # MAB11311).



### Flow Cytometry

Flow cytometric analysis of human Pan-Cytokeratins on HeLa cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled Pan Cytokeratin monoclonal antibody, clone AE1 + AE3.

## Specification

Product Description	Mouse monoclonal antibody raised against Pan Cytokeratin.
Immunogen	Human epidermal keratin.
Host	Mouse
Theoretical MW (kDa)	40-67
Reactivity	Human

<b>Specificity</b>	This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with high 67 kDa (CK1); 64 kDa (CK3); 59 kDa (CK4); 58 kDa (CK5); 56 kDa (CK6); 52 kDa (CK8); 56.5 kDa (CK10); 50 kDa (CK14); 50 kDa (CK15); 48 kDa (CK16); 40 kDa (CK19). AE-1/AE-3 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.
<b>Form</b>	Liquid
<b>Purification</b>	Protein A/G purification
<b>Isotype</b>	IgG1, kappa
<b>Recommend Usage</b>	Flow Cytometry (1-2 ug/million cells) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Western Blot (1-2 ug/mL for 2 hours at RT) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.05% BSA, 0.05% sodium azide).
<b>Storage Instruction</b>	Store at 4°C.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) analysis of human colon carcinoma with Pan Cytokeratin monoclonal antibody, clone AE1 + AE3 (Cat # MAB11311).

- Immunofluorescence

- Flow Cytometry

Flow cytometric analysis of human Pan-Cytokeratins on HeLa cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled Pan Cytokeratin monoclonal antibody, clone AE1 + AE3.

## Gene Info — KRT76

Entrez GeneID	<a href="#">51350</a>
Gene Name	KRT76
Gene Alias	HUMCYT2A, KRT2B, KRT2P
Gene Description	keratin 76
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into epithelial keratins and hair keratins. The type II keratins are clustered in a region of chromosome 12q13. [provided by RefSeq]
Other Designations	cytokeratin 2 keratin 2p

## Gene Info — KRT77

Entrez GeneID	<a href="#">374454</a>
Gene Name	KRT77
Gene Alias	K1B, KRT1B, MGC148087
Gene Description	keratin 77
Omim ID	<a href="#">611158</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into epithelial keratins and hair keratins. This gene encodes an epithelial keratin that is expressed in the skin and eccrine sweat glands. The type II keratins are clustered in a region of chromosome 12q13
Other Designations	keratin 1B