

## Cytokeratin, pan (Epithelial Marker) Antibody

Mouse Monoclonal Antibody [Clone Cocktail PAN-CK]

Catalog No	Format	Size
MSM17-999-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
MSM17-999-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
MSM17-999-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

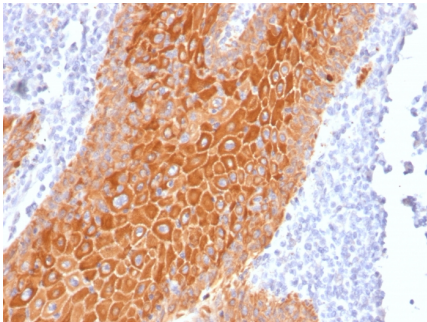
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

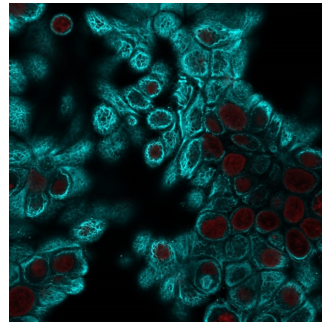
<b>Clone</b>	Cocktail PAN-CK
<b>Gene Name</b>	KRT77
<b>Immunogen</b>	Human epidermal keratins
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG / Kappa
<b>Mol. Weight of Antigen</b>	40-67kDa (Multiple)
<b>Species Reactivity</b>	Cat, Chicken, Cow, Dog, Human, Monkey, Mouse, Rabbit, Rat
<b>Positive Control</b>	Adeno- or Squamous carcinomas, HeLa, MCF-7, Skin

\*Optimal dilution for a specific application should be determined.

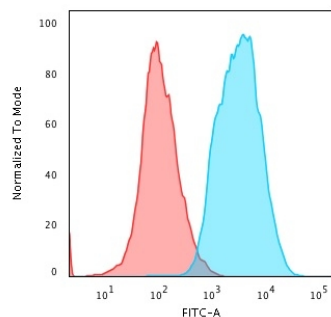
### Product Images for Cytokeratin, pan (Epithelial Marker) Antibody



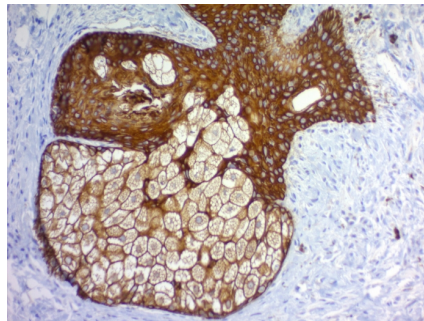
Formalin-fixed, paraffin-embedded human squamous cell carcinoma stained with Pan-Cytokeratin Mouse Monoclonal Antibody (PAN-CK).



Confocal immunofluorescent analysis of HeLa cells using Pan-Cytokeratin Mouse Monoclonal Antibody (PAN-CK) followed by goat anti-mouse IgG-CF488 (cyan). Nuclei are counterstained with NucSpot (red).



Flow cytometric analysis of human HeLa cells. Pan-Cytokeratin Mouse Monoclonal Antibody (PAN-CK) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



Formalin-fixed, paraffin-embedded human basal cell carcinoma stained with Pan-Cytokeratin Mouse Monoclonal Antibody (PAN-CK).

### Specificity & Comments

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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

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 and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.