

36-11121: Monoclonal Antibody to Cytokeratin, pan (Epithelial Marker)(Clone : AE-1/AE-3)

Clonality :	Monoclonal
Clone Name :	AE-1/AE-3
Application :	IHC,FACS,IF
Reactivity :	Human
Gene :	KRT77
Gene ID :	374454
Uniprot ID :	Q7Z794
Format :	Purified
Alternative Name :	KRT77,KRT1B
Isotype :	Mouse IgG1 / Kappa
Immunogen Information :	Human epidermal keratin

Description

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 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. 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.

Product Info

Amount :	100 µg
Purification :	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.
Content :	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Store the antibody at -20 to -80°C. Antibody is stable for 24 months. Nonhazardous. No MSDS required.

Application Note

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

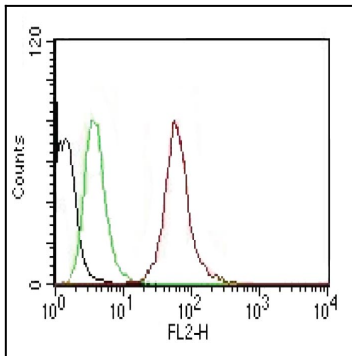


Figure 1: Flow Cytometric analysis of human Pan Cytokeratin on HeLa cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled Pan-Cytokeratin Monoclonal Antibody (AE-1/AE-3).

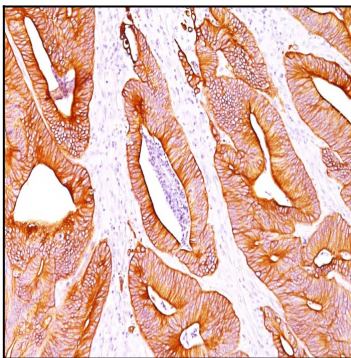


Figure 2: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with pan Cytokeratin Monoclonal Antibody cocktail (AE-1/AE3).