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 SPM115 + SPM116]
Catalog # AH10955

Product Information

Application	WB, IF, FC, IHC-P
Primary Accession	Q7Z794
Other Accession	374454 (KRT77), 51350 (KRT76), 334989 (KRT77), 654392 (KRT76), Q01546
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Chicken, Bovine, Dog
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG's
Clone Names	SPM115 + SPM116
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 IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
Format	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	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 (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. Expressed in skin..

Tissue Location

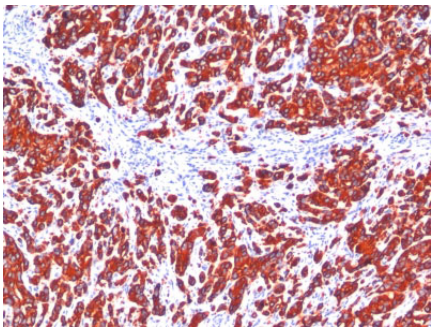
Background

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 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.

References

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

Images



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with pan Cytokeratin Monoclonal Antibody cocktail (SPM115 + SPM116).

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