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

Mouse Monoclonal Antibody [Clone KRT/457]
Catalog # AH12920

Product Information

Application	WB, IF, FC, IHC-P
Primary Accession	P02538
Other Accession	3851 (CK4), 3852 (CK5), 3853 (CK6A), 3854 (CK6B), 286887 (CK6C), 3856 (CK8), 3858 (CK10), 3860 (CK13), 3875 (CK18) (Human), P04259 (CK6B), P13647 (CK5), P19013 (CK4), P48668 (CK6C)
Reactivity	Human, Mouse, Rat, Monkey, Pig, Goat, Bovine, Guinea Pig
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1
Clone Names	KRT/457
Calculated MW	60045

Additional Information

Gene ID	3853
Other Names	Keratin, type II cytoskeletal 6A, Cytokeratin-6A, CK-6A, Cytokeratin-6D, CK-6D, Keratin-6A, K6A, Type-II keratin Kb6, Hom s 5, KRT6A, K6A, KRT6D
Application Note	WB~~1:1000 IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Cytokeratin, Multi (Epithelial Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KRT6A (HGNC:6443)
Synonyms	K6A, KRT6D
Function	Structural component of intermediate filaments in epithelial keratinocytes. Forms heteropolymers with the type I keratins KRT16 and KRT17, assembling into keratin intermediate filament networks that contribute to the structural integrity and stress resilience of stratified epithelia, particularly in epidermis, nail bed and oral mucosa (PubMed:11886499, PubMed:17719747, PubMed:7545493). Rapidly induced in wound-edge keratinocytes and participates in cytoskeletal reorganization during re-epithelialization (By similarity). Negatively regulates collective keratinocyte migration by stabilizing

	non-muscle myosin MYH9 and desmoplakin, thereby altering cell-cell and cell-matrix adhesion and reducing the speed and directionality of epithelial sheet movement during wound repair (By similarity). Also limits epithelial migration by inhibiting SRC activity during wound repair (By similarity). Required for normal plantar and nail unit integrity (PubMed:11886499, PubMed:17719747, PubMed:7545493).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:P50446}.
Tissue Location	Expressed in the corneal epithelium (at protein level).

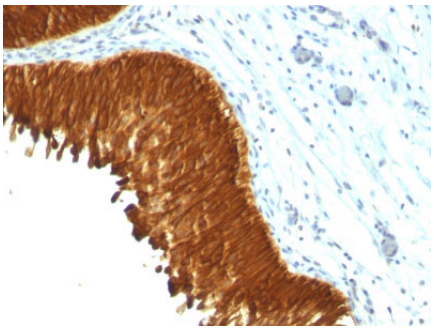
Background

Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. This antibody recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, including 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 53kDa (CK13) and 45kDa (CK18). This is a broad-spectrum antibody, which has been reported to differentiate epithelial tumors from non-epithelial tumors. Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis.

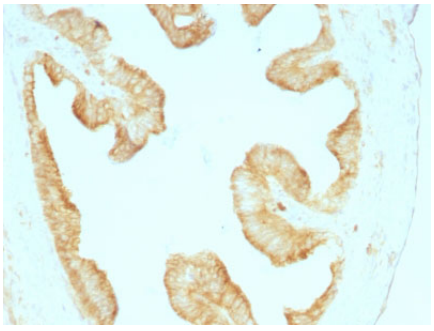
References

Bartek J et. al. J Pathol, 1991, 164(3):215-24. ,Kasper M. Histochemistry, 1991, 95(6):613-20

Images



Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Multi Cytokeratin Monoclonal Antibody (KRT/457).



Formalin-fixed, paraffin-embedded Rat Oviduct stained with Multi Cytokeratin Monoclonal Antibody (KRT/457).

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