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Anti-Cytokeratin 6 Antibody

Catalog # AP95921

Product Information

Application	WB, FC, IF/IC
Primary Accession	P02538
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	60045

Additional Information

Gene ID	3853
Other Names	K6A; KRT6D; Keratin, type II cytoskeletal 6A; Cytokeratin-6A; CK-6A; Cytokeratin-6D; CK-6D; Keratin-6A; K6A; Type-II keratin Kb6; allergen Hom s 5
Target/Specificity	Recombinant fusion protein of human Cytokeratin 6 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

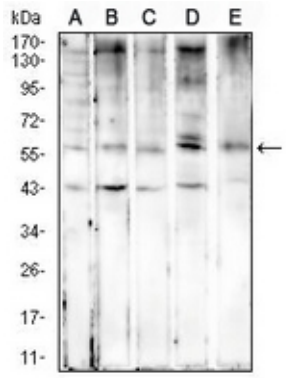
Protein Information

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).

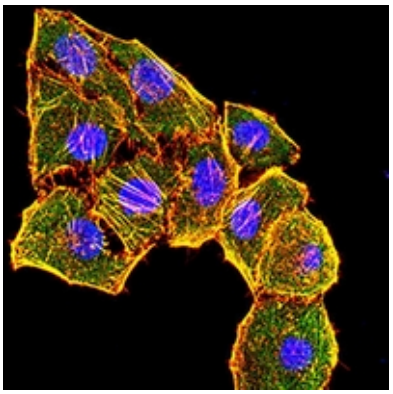
Cellular Location Cytoplasm {ECO:0000250|UniProtKB:P50446}.

Tissue Location Expressed in the corneal epithelium (at protein level).

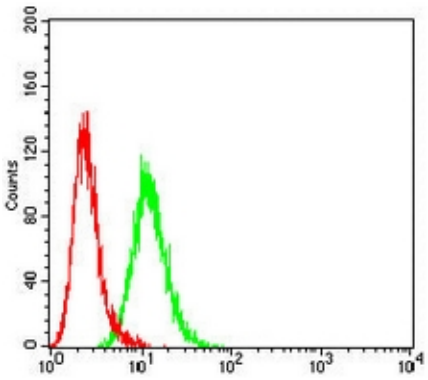
Images



Western blot analysis of Cytokeratin 6 expression in Hela (A), MCF7 (B), SW480 (C), HepG2 (D), T47D (E) whole cell lysates. (Predicted band size: 60 kD; Observed band size: 58 kD)



Immunofluorescent analysis of Cytokeratin 6 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Anti-Cytokeratin 6 Antibody (green) and negative control (red).

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