

Anti-Cytokeratin 2 Antibody

Catalog # AP95919

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P35908
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	65433

Additional Information

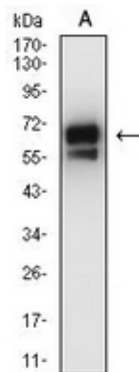
Gene ID	3849
Other Names	KRT2A; KRT2E; Keratin, type II cytoskeletal 2 epidermal; Cytokeratin-2e; CK-2e; Epithelial keratin-2e; Keratin-2 epidermis; Keratin-2e; K2e; Type-II keratin Kb2
Target/Specificity	Recombinant fusion protein of human Cytokeratin 2 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG2a. 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

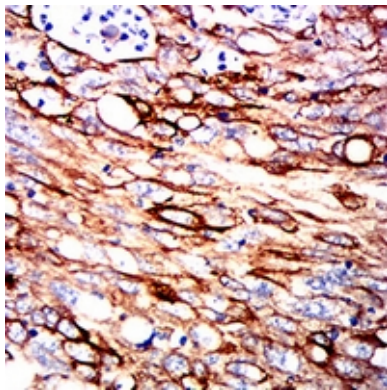
Name	KRT2 (HGNC:6439)
Synonyms	KRT2A, KRT2E
Function	Structural component of intermediate filaments in suprabasal keratinocytes of stratified epidermis. Forms heteropolymers with type I keratins (e.g., KRT10), assembling into keratin intermediate filament networks that support mechanical integrity and resilience of the differentiating epidermis (PubMed: 12598329 , PubMed: 1380918). Contributes to terminal differentiation and cornification of keratinocytes and plays a role in establishing the epidermal barrier (PubMed: 9804344).
Cellular Location	Cytoplasm.
Tissue Location	Expressed in the upper spinous and granular suprabasal layers of normal adult epidermal tissues from most body sites including thigh, breast nipple, foot sole, penile shaft and axilla. Not present in foreskin, squamous metaplasias and carcinomas Expression in hypertrophic and keloid scars begins in the deepest suprabasal layer. Weakly expressed in normal gingiva

and tongue, however expression is induced in benign keratoses of lingual mucosa and in mild-to-moderate oral dysplasia with orthokeratinization

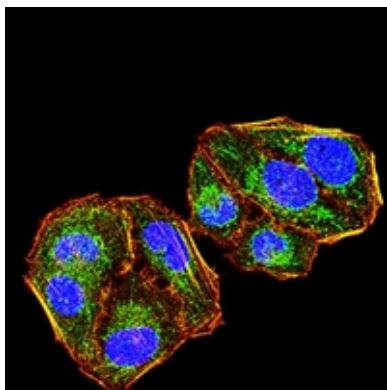
Images



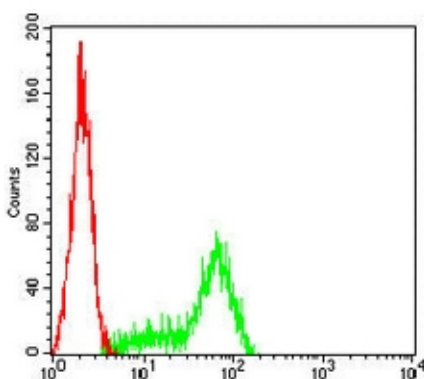
Western blot analysis of Cytokeratin 2 expression in A431 (A) whole cell lysates. (Predicted band size: 65 kD; Observed band size: 65 kD)



Immunohistochemical analysis of Cytokeratin 2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Cytokeratin 2 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 humidified 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 2 Antibody (green) and negative control (red).

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