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Cytokeratin 17 Antibody

Rabbit mAb
Catalog # AP90517

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q04695
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	39.1; CK-17; Cytokeratin-17; K17; K1C17; keratin 17; Keratin, type I cytoskeletal 17; Keratin-17; KRT17; PC; PC2; PCHC1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	48106

Additional Information

Dilution	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:30
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Cytokeratin 17
Description	Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state (By similarity). Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway (By similarity). Involved in tissue repair.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

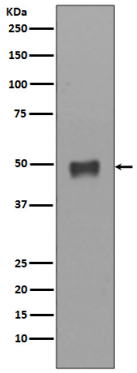
Name	KRT17 (HGNC:6427)
Function	Structural component of intermediate filaments in epithelial keratinocytes. Forms heteropolymers with type II keratins KRT6A and KRT6B, assembling into keratin filament networks that contribute to the structural integrity and specialized differentiation of various epithelial appendages, including nail and hair follicle (PubMed:10844551, PubMed:11886499, PubMed:16620218, PubMed:17719747, PubMed:7539673). Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state (By similarity). Modulates the function of TNF in the specific context of hair cycling (By similarity). Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt/mTOR pathway (By similarity). Involved in tissue repair (By similarity). Promotes epithelial proliferation by acting a regulator of immune response in skin:

promotes Th1/Th17-dominated immune environment contributing to the development of basaloid skin tumors (By similarity). May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation (PubMed:15795121, PubMed:16713453).

Cellular Location Cytoplasm {ECO:0000250|UniProtKB:Q9QWL7}.

Tissue Location Expressed in the outer root sheath and medulla region of hair follicle specifically from eyebrow and beard, digital pulp, nail matrix and nail bed epithelium, mucosal stratified squamous epithelia and in basal cells of oral epithelium, palmoplantar epidermis and sweat and mammary glands. Also expressed in myoepithelium of prostate, basal layer of urinary bladder, cambial cells of sebaceous gland and in exocervix (at protein level)

Images



Western blot analysis of Cytokeratin 17 expression in HACAT cell lysate.

Image not found : 202311/AP90517-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human tonsil, using Cytokeratin 17 Antibody.

Image not found : 202311/AP90517-IF.jpg

Immunofluorescent analysis of Hela cells, using Cytokeratin 17 Antibody .

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