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KD-Validated Anti-Keratin 17 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1569

Product Information

Application	WB, FC, ICC
Primary Accession	Q04695
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB6535
Calculated MW	48106
Gene Name	KRT17
Aliases	KRT17; Keratin 17; Keratin, Type I Cytoskeletal 17; Keratin 17, Type I; Cytokeratin-17; CK-17; PCHC1; 39.1; K17; Keratin-17; PC2; PC
Immunogen	A synthesized peptide derived from human Cytokeratin 17

Additional Information

Gene ID	3872
Other Names	Keratin, type I cytoskeletal 17, 39.1, Cytokeratin-17, CK-17, Keratin-17, K17, KRT17

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)

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