

**KRT17 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13426b****Specification**

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**KRT17 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q04695](#)**KRT17 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 3872**Other Names**

Keratin, type I cytoskeletal 17, Cytokeratin-17, CK-17, Keratin-17, K17, KRT17

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13426b was selected from the C-term region of KRT17. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**KRT17 Antibody (C-term) Blocking peptide - Protein Information****Name** KRT17**Function**

Type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair (By similarity). 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. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial 'stem cells'. Acts as a promoter of 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.

**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)

**KRT17 Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**KRT17 Antibody (C-term) Blocking peptide - Images****KRT17 Antibody (C-term) Blocking peptide - Background**

This gene encodes the type I intermediate filament chain keratin 17, expressed in nail bed, hair follicle, sebaceous glands, and other epidermal appendages. Mutations in this gene lead to Jackson-Lawler type pachyonychia congenita and steatocystoma multiplex.

**KRT17 Antibody (C-term) Blocking peptide - References**

Gorski, J.J., et al. Breast Cancer Res. Treat. 122(3):721-731(2010) Coolen, N.A., et al. Arch. Dermatol. Res. 302(1):47-55(2010) Xu, Y., et al. BMB Rep 42(6):344-349(2009) Wang, J.F., et al. J Eur Acad Dermatol Venereol 23(6):723-724(2009) Liu, Z.B., et al. Tumori 95(1):53-62(2009)