

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3)
Mouse Monoclonal Antibody
Catalog # ALS14871**Specification**

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) - Product Information

Application	IHC
Primary Accession	Q04695
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	48kDa KDa

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) - Additional Information**Gene ID** 3872**Other Names**

Keratin, type I cytoskeletal 17, 39.1, Cytokeratin-17, CK-17, Keratin-17, K17, KRT17

Target/Specificity

Reacts with cytokeratin 17 in basal layers of pseudo-stratified and transitional epithelia.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) is for research use only and not for use in diagnostic or therapeutic procedures.

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) - 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

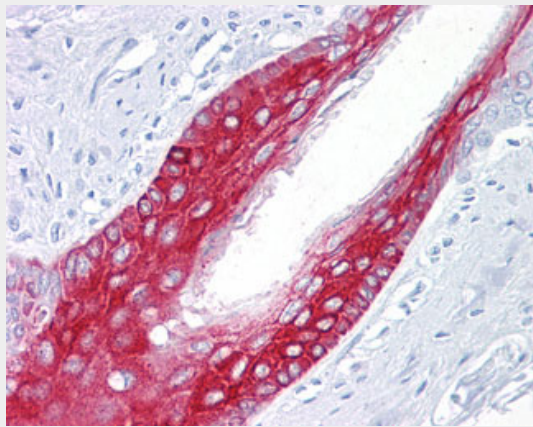
Expressed in the outer root sheath and medulla region of hair follicle specifically from eyebrow and beard, digital pulp, nail matrix and nail bed epithelium, mucosal stratified squamous epithelia and in basal cells of oral epithelium, palmoplantar epidermis and sweat and mammary glands. Also expressed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

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) - Images



Anti-KRT17 / Cytokeratin 17 antibody IHC of human skin, hair follicle.

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) - Background

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.

KRT17 / CK17 / Cytokeratin 17 Antibody (clone E3) - References

- Troyanovsky S.M.,et al.Eur. J. Cell Biol. 59:127-137(1992).
Flohr T.,et al.Eur. J. Immunol. 22:975-979(1992).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).
McLean W.H.I.,et al.Nat. Genet. 9:273-278(1995).