10320 Camino Santa Fe, Suite G
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KD-Validated Anti-Keratin 17 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1569

Specification

KD-Validated Anti-Keratin 17 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q04695
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 48 kDa , o bserved , 48 kDa KDa**
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**

KD-Validated Anti-Keratin 17 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**3872**

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

KD-Validated Anti-Keratin 17 Rabbit Monoclonal Antibody - 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}.

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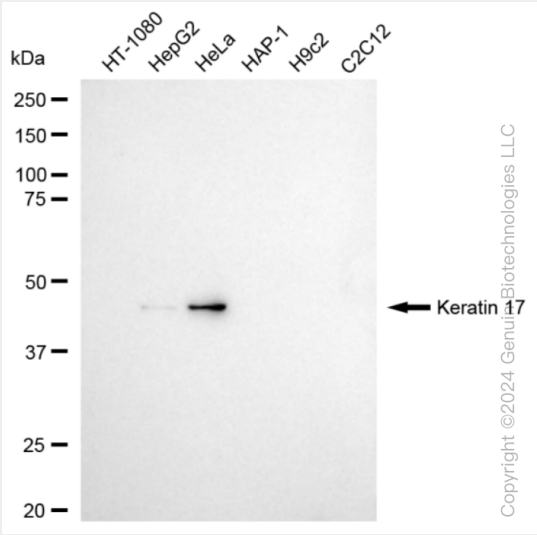
Tissue Location
Expressed in the outer root sheath and medulla region of hair follicle specifically from eyebrow and beard, digital pulp, nail matrix and nail bed epithelium, mucosal stratified squamous epithelia and in basal cells of oral epithelium, palmoplantar epidermis and sweat and mammary glands.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

KD-Validated Anti-Keratin 17 Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Keratin 17 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Keratin 17 antibody (Cat#AGI1569). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Keratin 17 antibody (Cat#AGI1569, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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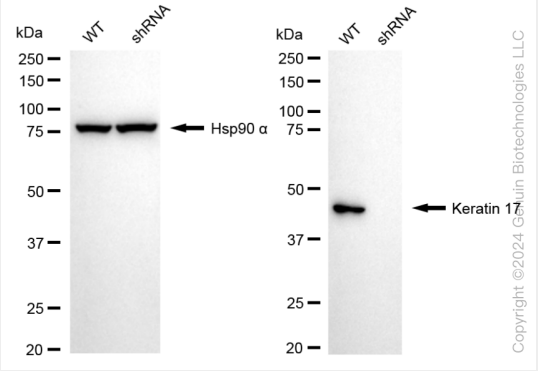
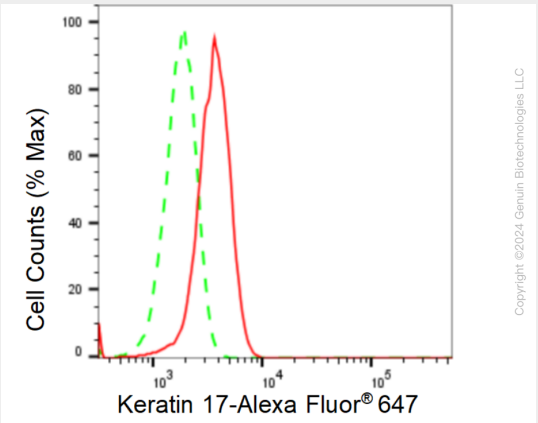
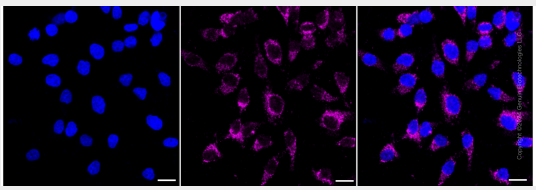


Western blotting analysis using anti-Keratin 17 antibody (Cat#AGI1569). Keratin 17 expression in wild type (WT) and Keratin 17 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Keratin 17 antibody (Cat#AGI1569, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Keratin 17 expression in HeLa cells using Keratin 17 antibody (Cat#AGI1569, 1:2,000). Green, isotype control; red, Keratin 17.



Immunocytochemical staining of HeLa cells with anti-Keratin 17 antibody (Cat#AGI1569, 1:1,000). Nuclei were stained blue with DAPI; Keratin 17 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.