Product Name: Cytokeratin 17 Rabbit Polyclonal Antibody
Catalog #: APRab09734

Summary

Production Name	Cytokeratin 17 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,IHC,WB,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	KRT17
Alternative Names	KRT17; Keratin; type I cytoskeletal 17; 39.1; Cytokeratin-17; CK-17; Keratin-17; K17
Gene ID	3872.0
SwissProt ID	Q04695.The antiserum was produced against synthesized peptide derived from human Keratin 17. AA range:381-430

Application

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Dilution Ratio	WB 1:500 - 1:2000 IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	48kD

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. [provided by RefSeq, Aug 2008],disease:Defects in KRT17 are a cause of pachyonychia congenita type 2 (PC2) [MIM:167210]; also known as pachyonychia congenita Jackson-Lawler type. PC2 is an autosomal dominant ectodermal dysplasia characterized by hypertrophic nail dystrophy resulting in onchyogryposis (thickening and increase in curvature of the nail), palmoplantar keratoderma and hyperhidrosis, follicular hyperkeratosis, multiple epidermal cysts, absent/sparse eyebrow and body hair, and by the presence of natal teeth.,disease:Defects in KRT17 are a cause of steatocystoma multiplex (SM) [MIM:184500]. SM is a disease characterized by round or oval cystic tumors widely distributed on the back, anterior trunk, arms, scrotum, and thighs.,disease:KRT16 and KRT17 are coexpressed only in pathological situations such as metaplasias and carcinomas of the uterine cervix and in psoriasis vulgaris.,function:May play a role in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "stem cells". 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. Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state. 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. Involved in tissue repair.,induction:Induced in damaged or stressed epidermis. Induced by the cytokines interferon-gamma (IFN-gamma), tumor necrosis factor alpha (TNF-alpha) and transforming growth factor-alpha (TGF-alpha), and by the potent NF-kappa B inhibitor compounds Bay 11-7082 and Bay 11-7085. Down-regulated by the drug Imatinib.,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa).,online information:Keratin-17 entry,similarity:Belongs to the intermediate filament family.,subunit:Heterodimer of a type I and a type II keratin. KRT17 associates with KRT6 isomers. Interacts with TRADD and SFN.,tissue specificity: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).,
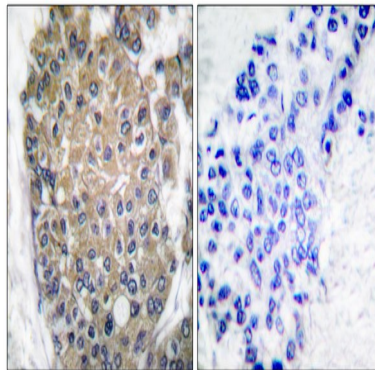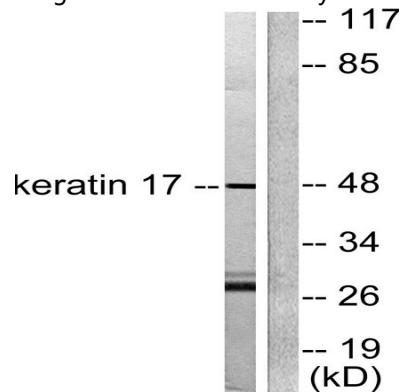
Research Area

Image Data
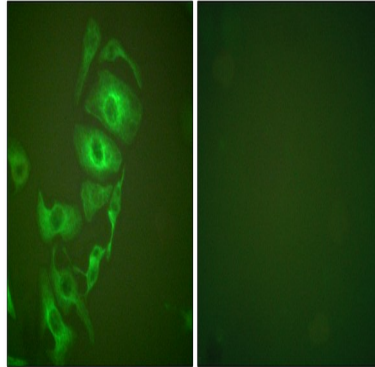
Immunofluorescence analysis of HepG2 cells, using Keratin 17 Antibody. The picture on the right is blocked with the synthesized peptide.


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Keratin 17 Antibody. The picture on the right is blocked with the synthesized peptide.

Western blot analysis of lysates from HUVEC cells, using Keratin 17 Antibody. The lane on the right is blocked with the synthesized peptide.

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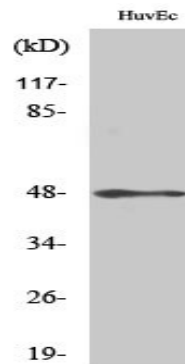
Western Blot analysis of various cells using Cytokeratin 17 Polyclonal Antibody diluted at 1：2000

Note

For research use only.