

Rabbit Anti-CK17 antibody

SL1431R

Product Name CK17

Chinese Name 细胞角蛋白 17 抗体

Alias 39.1; CK 17; Cytokeratin 17; Cytokeratin17; K17; Keratin 17; Keratin type I cytoskeletal 17; Keratin17; KRT 17; KRT17; KRT17 protein; PC; PC2; PCHC1; K1C17_HUMAN.

Research Area Tumour

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, (predicted: Rat, Dog, Cow, Horse, Sheep,)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 47kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human Cytokeratin 17: 221-330/432

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. 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].

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.

**Product
Detail**

Subunit:

Heterodimer of a type I and a type II keratin. KRT17 associates with KRT6 isomers. Interacts with TRADD and SFN.

Subcellular Location:

Cytoplasm.

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).

DISEASE:

Defects in KRT17 are a cause of pachyonychia congenital type 2 (PC2) [MIM:167210]; also known as pachyonychia congenital Jackson-Lawler type. PC2 is an autosomal dominant ectodermal dysplasia characterized by hypertrophic nail dystrophy resulting in onychogryposis (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.

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.

Note=KRT16 and KRT17 are coexpressed only in pathological situations such as metaplasias and carcinomas of the uterine cervix and in psoriasis vulgaris.

Similarity:

Belongs to the intermediate filament family.

SWISS:

Q04695

Gene ID:

3872

Database links:

[Entrez Gene: 3872](#) Human

[Entrez Gene: 16667](#) Mouse

[Entrez Gene: 287702](#) Rat

[Omim: 148069](#) Human

[SwissProt: Q04695](#) Human

[SwissProt: Q9QWL7](#) Mouse

[SwissProt: Q6IFU8](#) Rat

[Unigene: 2785](#) Human

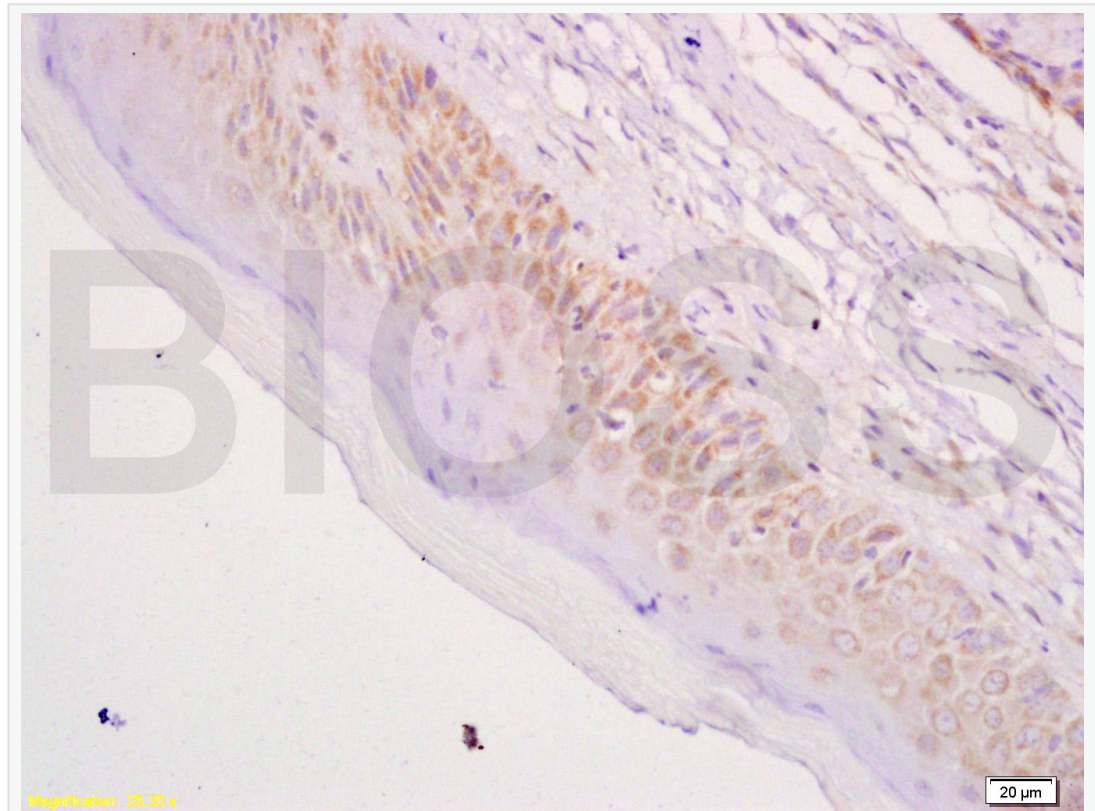
[Unigene: 14046](#) Mouse

[Unigene: 106755](#) Rat

结构蛋白 (Structural Proteins)

常用于 Tumour 细胞的分化、增殖及转移方面的研究。

**Product
Picture**



Tissue/cell: mouse skin tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CK17 Polyclonal Antibody, Unconjugated(SL1431R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining