

Product datasheet

Recombinant Human Cytokeratin 17 protein ab116974

1 Image

Description

Product name	Recombinant Human Cytokeratin 17 protein
Expression system	Wheat germ
Accession	<u>Q04695</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MTTSIRQFTSSSSIKGSSGLGGSSRTSCRLSGGLGAGSC RLGSAGGLGS TLGGSSYSSCYFSGSGGGYGSSFFGGVDGLLAGGEKATM QNLNDRLASYLD KVRAL EE ANTELEV KIRDWYQRQAPGPARDYSQYYRTIEE LQNKILTATV DNANILLQIDNARLAADDFRTKFETEALRLSVEADINGLR RVLDELTLA RADLEMQIENLKEELAYLKKNH EEMNALRGQVGGEINVE MDAAPGVDLS RIPNEMRDQYEKMAEKNRKAEDWFFSKTEELNREVATN SELVQSGKSEI SELRRTMQALEIELQSQLSMKASLEGNLAETENRYCVQLS QIQLIGSVE EQLAQLRCEMEQQNQEYKILLDVKTRLEQEIATYRRLLEGE DAHLTQYKK EPVTTRQVRTVEEVQDGKVISSREQVHQTRR
Predicted molecular weight	73 kDa including tags
Amino acids	1 to 432

Specifications

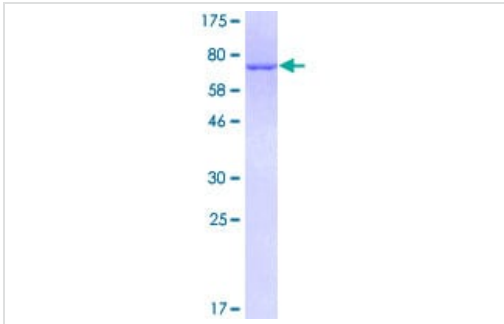
Our **Abpromise guarantee** covers the use of **ab116974** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot
	SDS-PAGE

Form	ELISA Liquid
Preparation and Storage	
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
General Info	
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.
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).
Involvement in 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. 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.
Sequence similarities	Belongs to the intermediate filament family.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant Human Cytokeratin 17 protein (ab116974)

12.5% SDS-PAGE showing ab116974 at approximately 73.26kDa. Stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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