abcam

## Product datasheet

# Recombinant Human Cytokeratin 16/K16 protein (denatured) ab177600

1 Image

### Description

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|---|---|
| **Product name** | Recombinant Human Cytokeratin 16/K16 protein (denatured) |
| **Purity** | > 90 % SDS-PAGE. |
| **Expression system** | Escherichia coli |
| **Accession** | NP_005548.2 |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | MGSSHHHHHHSSGLVPRGSHMGSMTTCSRQFTSSSSMK GSCGIGGGIGGG SSRISSVLAGGSCRAPSTYGGGLSVSSRFSSGGACGLGG GYGGGFSSSSS FGSGFGGGYGGGLGAGFGGGLGAGFGGGFAGGDGLLV GSEKVTMQNLNDR LASYLDKVRALEEANADLEVKIRDWYQRQRPSEIKDYSPY FKTIEDLRNK IIAATIENAQPILQIDNARLAADDFRTKYEHELALRQTVEADV NGLRRVL DELTLARTDLEMQIEGLKEELAYLRKNHEEEMLALRGQTG GDVNVEMDAA PGVDLSRILNEMRDQYEQMAEKNRRDAETWFLSKTEELN KEVASNSELVQ SSRSEVTELRRVLQGLEIELQSQLSMKASLENSLEETKGR YCMQLSQIQG LIGSVEEQLAQLRCEMEQQSQEYQILLDVKTRLEQEIATYR RLLEGEDAH LSSQQASGQSYSSREVFTSSSSSSRQTRPILKEQSSSS FSQGQSS |
| **Predicted molecular weight** | 54 kDa including tags |
| **Amino acids** | 1 to 473 |
| **Tags** | His tag N-Terminus |

## Specifications

Our Abpromise guarantee covers the use of **ab177600** in the following tested applications.

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

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| **Applications** | SDS-PAGE |
| **Form** | Liquid |
| **Additional notes** | Previously labelled as Cytokeratin 16. |

## Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.<br>pH: 8.00<br>Constituents: 0.32% Tris-HCl buffer, 10% Glycerol (glycerin, glycerine), 2.4% Urea |

## General Info

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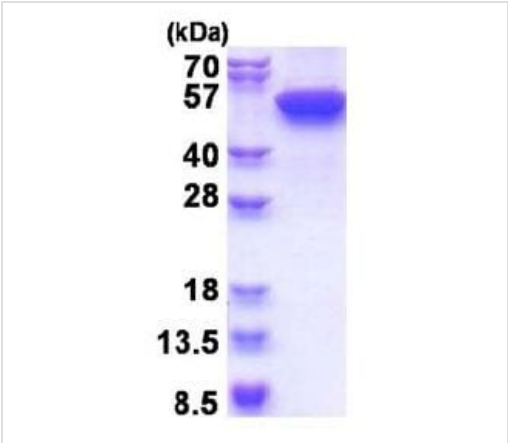
| **Tissue specificity** | Expressed in the hair follicle, nail bed and in mucosal stratified squamous epithelia and, suprabasally, in oral epithelium and palmoplantar epidermis. Also found in luminal cells of sweat and mammary gland ducts. |
| **Involvement in disease** | Defects in KRT16 are a cause of pachyonychia congenita type 1 (PC1) [MIM:167200]; also known as Jadassohn-Lewandowsky syndrome. PC1 is an autosomal dominant ectodermal dysplasia characterized by hypertrophic nail dystrophy resulting in onchyogryposis (thickening and increase in curvature of the nail), palmoplantar keratoderma, follicular hyperkeratosis, and oral leukokeratosis. Hyperhidrosis of the hands and feet is usually present.<br>Defects in KRT16 are the cause of palmoplantar keratoderma non-epidermolytic focal (FNEPPK) [MIM:613000]. A dermatological disorder characterized by non-epidermolytic palmoplantar keratoderma limited to the pressure points on the balls of the feet, with later mild involvement on the palms. Oral, genital and follicular keratotic lesions are often present.<br>Defects in KRT16 are a cause of unilateral palmoplantar verrucous nevus (UPVN) [MIM:144200]. UPVN is characterized by a localized thickening of the skin in parts of the right palm and the right sole.<br>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. |

## Images




SDS-PAGE - Recombinant Human Cytokeratin 16/K16 protein (denatured) (ab177600)

15% SDS-PAGE analysis of ab177600 (3µg).

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

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