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# Recombinant human Cytokeratin 19 protein

Catalog Number: ATGP1939

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-400aa

#### **UniProt No.**

P08727

#### **NCBI Accession No.**

NP 002267

#### **Alternative Names**

Keratin type I cytoskeletal 19, Keratin, type I cytoskeletal 19, CK19, K19, K1CS

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

46.5 kDa (423aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M uREA, 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

## **Description**

KRT19 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 envelopes the developing epidermis. Recombinant human KRT19 protein, fused to His-tag at N-terminus, was expressed in E. coli.



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# **Amino acid Sequence**

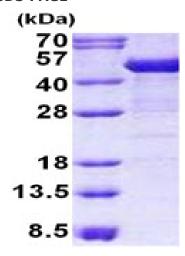
MGSSHHHHHH SSGLVPRGSH MGSMTSYSYR QSSATSSFGG LGGGSVRFGP GVAFRAPSIH GGSGGRGVSV SSARFVSSSS SGAYGGGYGG VLTASDGLLA GNEKLTMQNL NDRLASYLDK VRALEAANGE LEVKIRDWYQ KQGPGPSRDY SHYYTTIQDL RDKILGATIE NSRIVLQIDN ARLAADDFRT KFETEQALRM SVEADINGLR RVLDELTLAR TDLEMQIEGL KEELAYLKKN HEEEISTLRG QVGGQVSVEV DSAPGTDLAK ILSDMRSQYE VMAEQNRKDA EAWFTSRTEE LNREVAGHTE QLQMSRSEVT DLRRTLQGLE IELQSQLSMK AALEDTLAET EARFGAQLAH IQALISGIEA QLGDVRADSE RQNQEYQRLM DIKSRLEQEI ATYRSLLEGQ EDHYNNLSAS KVL

#### **General References**

Vilardell, F., et al. (2012) Virchows Arch. 460 (6), 569-575 Leelawat, K., et al. (2012) World J. Gastroenterol. 18 (2), 175-181

# **DATA**

# **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

