

## KRT18 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71668
<b>Synonyms:</b>	Cell proliferation inducing gene 46 protein; Cell proliferation inducing protein 46 ; Keratin D ; keratin, type I cytoskeletal 18; Keratin-18; Krt18
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P05783 (S2-H430)
<b>Gene ID:</b>	3875
<b>Molecular Weight:</b>	Approximately 50.8 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> S F T T R S T F S T   N Y R S L G S V Q A   P S Y G A R P V S S   A A S V Y A G A G G S G S R I S V S R S   T S F R G G M G S G   G L A T G I A G G L   A G M G G I Q N E K E T M Q S L N D R L   A S Y L D R V R S L   E T E N R R L E S K   I R E H L E K K G P Q V R D W S H Y F K   I I E D L R A Q I F   A N T V D N A R I V   L Q I D N A R L A A D D F R V K Y E T E   L A M R Q S V E N D   I H G L R K V I D D   T N I T R L Q L E T E I E A L K E E L L   F M K K N H E E E V   K G L Q A Q I A S S   G L T V E V D A P K S Q D L A K I M A D   I R A Q Y D E L A R   K N R E E L D K Y W   S Q Q I E E S T T V V T T Q S A E V G A   A E T T L T E L R R   T V Q S L E I D L D   S M R N L K A S L E N S L R E V E A R Y   A L Q M E Q L N G I   L L H L E S E L A Q   T R A E G Q R Q A Q E Y E A L L N I K V   K L E A E I A T Y R   R L L E D G E D F N   L G D A L D S S N S M Q T I Q K T T T R   R I V D G K V V S E   T N D T K V L R H           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The KRT18 Protein plays diverse roles in cellular processes, including the uptake of thrombin-antithrombin complexes by hepatic cells and the reorganization of filaments when phosphorylated. It actively participates in the delivery of mutated
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CFTR to the plasma membrane and collaborates with KRT8 in interleukin-6 (IL-6)-mediated barrier protection. As a heterotetramer of two type I and two type II keratins, KRT18 forms a complex with KRT8, and interacts with PLEC isoform 1C when in a heterodimer with KRT8. Additionally, KRT18 engages in interactions with the thrombin-antithrombin complex and exhibits connections with various proteins such as PNN, mutated CFTR, YWHAE, YWHAH, YWHAZ (when phosphorylated), DNAJB6, TCHP, TRADD, FAM83H, EPPK1, PKP1, and PKP2. The multifaceted interactions and functions of KRT18 highlight its involvement in fundamental cellular activities and its contribution to molecular pathways governing cell structure and signaling.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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