

## UPK2 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71013
<b>Synonyms:</b>	Uroplakin-2; UP2; Uroplakin II; UPII; UPK2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	O00526 (D26-G155)
<b>Gene ID:</b>	7379
<b>Molecular Weight:</b>	Approximately 27.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           D F N I S S L S G L    L S P A L T E S L L    V A L P P C H L T G    G N A T L M V R R A            N D S K V V T S S F    V V P P C R G R R E    L V S V V D S G A G    F T V T R L S A Y Q            V T N L V P G T K F    Y I S Y L V K K G T    A T E S S R E I P M    S T L P R R N M E S            I G L G M A R T G G         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. 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>	<p>The UPK2 protein serves as a crucial constituent of the asymmetric unit membrane (AUM), a specialized biomembrane intricately developed by fully differentiated urothelial cells. Its potential involvement in regulating AUM assembly underscores its significance in maintaining the structural integrity and specialized functions of urothelial cells. Through its interaction with uroplakin-1a (UPK1A), UPK2 forms part of a molecular network that likely contributes to the unique properties of the AUM. This association highlights the intricate interplay between UPK2 and UPK1A, shedding light on their cooperative roles in the intricate biology of terminally differentiated urothelial cells (By similarity).</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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