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# Recombinant human UPK3A protein

Catalog Number: ATGP1304

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

19-207aa

#### UniProt No.

075631

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

BAA31460.1

#### **Alternative Names**

uroplakin-3a, uPK3

# PRODUCT SPECIFICATION

### **Molecular Weight**

23.1 kDa (214aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 150mM NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **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**

uPK3A belongs to the uroplakin-3 family. uroplakins (uP) are key components of the urothelium. They are transmembrane proteins that pass the lipid bilayer once (uPII, uPIIIa, and uPIIIb) or four times (uPIa and uPIb; both belonging to the 'tetraspanin' family). All have large luminal/extracellular domains, but only uPIIIa and uPIIIb have significant cytoplasmic portions in their C-termini. uPK3A is a highly specific and moderately sensitive immunohistochemical marker for primary and metastatic urothelial carcinomas. Mutations in this gene may be associated with renal adysplasia Recombinant human uPK3A protein, fused to His-tag at N-terminus, was



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expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

# **Amino acid Sequence**

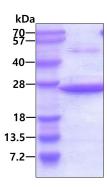
<MGSSHHHHHH SSGLVPRGSH MGSHM>VNLQP QLASVTFATN NPTLTTVALE KPLCMFDSKE ALTGTHEVYL YVLVDSAISR NASVQDSTNT PLGSTFLQTE GGRTGPYKAV AFDLIPCSDL PSLDAIGDVS KASQILNAYL VRVGANGTCL WDPNFQGLCN PPLSAATEYR FKYVLVNMST GLVEDQTLWS DPIRTNQLTP YSTIDTWPGR RSGG

## **General References**

Shapiro, E., et al. (2000) J. urol. 164: 1048-1051. Wu, X.R., et al. (1994) J. Biol. Chem. 269:13716-13724.

# **DATA**

#### **SDS-PAGE**



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

