## 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

$0.25 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

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

## Purity

> $90 \%$ by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80 C . 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 uPIII) or four times (uPla and uPIb; both belonging to the 'tetraspanin' family). All have large luminal/extracellular domains, but only uPIIIa and uPlllb 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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Recombinant human UPK3A protein
Catalog Number: ATGP1304
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.

