

AR50129PU-N

Human Uroplakin-3a (UPK3A) (19-207, His-tag) - Purified

Alternate names:

UP3a, UPIII, UPK3, Uroplakin III

Quantity:

0.25 mg

Concentration:

0.25mg/ml (determined by Bradford assay)

Background:

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

Uniprot ID:

[O75631](#)

NCBI:

[BAA31460](#)

GenelD:

[7380](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 150mM NaCl

Description:

Recombinant human UPK3A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSBMVNLQP QLASVTFATN NPTLTVALE KPLCMFDSKE
ALTGTHEVYL YVLVDSAISR NASVQDSTNT PLGSTFLQTE GGRTGPYKAV AFDLIPCSDL
PSLDAIGDVS KASQILNAYL VRVGANGTCL WDPNFQGLCN PPLSAATEYR FKYVLVNMT
GLVEDQTLWS DPIRTNQLTP YSTIDTWPGR RSGG

Molecular weight: 23.1 kDa (214aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:

