abcam

Product datasheet

Recombinant Human Uroplakin III protein ab115705

1 Image

Description

Product name	Recombinant Human Uroplakin III protein
Purity	> 90 % SDS-PAGE. ab115705 is purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Expression system	Escherichia coli
Accession	O75631
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSHMVNLQPQLASVTFA TNNPTLTTVALE KPLCMFDSKEALTGTHEVYLYVLVDSAISRNASVQDSTNT PLGSTFLQTE GGRTGPYKAVAFDLIPCSDLPSLDAIGDVSKASQILNAYLV RVGANGTCL WDPNFQGLCNPPLSAATEYRFKYVLVNMSTGLVEDQTLW SDPIRTNQLTP YSTIDTWPGRRSGG
Predicted molecular weight	23 kDa including tags
Amino acids	19 to 207
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab115705** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00
Constituents: 0.03% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

General Info

Function

Component of the asymmetric unit membrane (AUM); a highly specialized biomembrane elaborated by terminally differentiated urothelial cells. May play an important role in AUM-cytoskeleton interaction in terminally differentiated urothelial cells. It also contributes to the formation of urothelial glycocalyx which may play an important role in preventing bacterial adherence.

Tissue specificity

Expressed in ureter.

Involvement in disease

Defects in UPK3A are a cause of renal adysplasia (RADYS) [MIM:191830]; also known as renal agenesis or renal aplasia. Renal agenesis refers to the absence of one (unilateral) or both (bilateral) kidneys at birth. Bilateral renal agenesis belongs to a group of perinatally lethal renal diseases, including severe bilateral renal dysplasia, unilateral renal agenesis with contralateral dysplasia and severe obstructive uropathy.

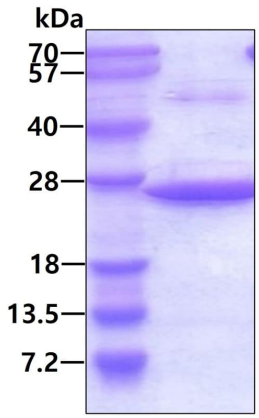
Sequence similarities

Belongs to the uroplakin-3 family.

Cellular localization

Endoplasmic reticulum membrane. Heterodimer formation with UPK1B is a prerequisite to exit out of the endoplasmic reticulum (ER).

Images



SDS-PAGE - Recombinant Human Uroplakin III protein (ab115705)

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

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