

Product datasheet

Recombinant Human Uroplakin III protein ab115705

1 Image

Overview

<b>Product name</b>	Recombinant Human Uroplakin III protein
<b>Protein length</b>	Protein fragment

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

Amino Acid Sequence

<b>Accession</b>	<a href="#">O75631</a>
<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHHSSGLVPRGSHMGSHMVNLQPQLASVTFATNNPTLTTVALE KPLCMFDSKEALTGTHEVYLYLVDSAISRNASVQDSTNTPLGSTFLQTE GGRTGPYKAVAFDLIPCSDLPSLDAIGDVSKASQLNAYLVRVGANGTCL WDPNFQGLCNPPLSAAATEYRFKYVLVNMSTGLVEDQTLWSDPIRNLTP YSTIDTWPGRSSGG
<b>Molecular weight</b>	23 kDa including tags
<b>Amino acids</b>	19 to 207
<b>Tags</b>	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.

<b>Applications</b>	Mass Spectrometry SDS-PAGE
<b>Mass spectrometry</b>	MALDI-TOF
<b>Purity</b>	> 90 % SDS-PAGE. ab115705 is purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
<b>Form</b>	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: 0.32% Tris HCl, 0.03% DTT, 20% Glycerol, 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.

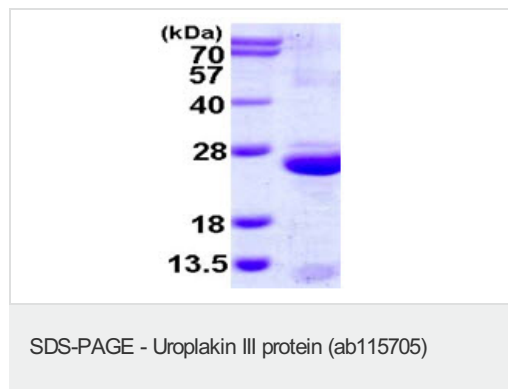
### Sequence similarities

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



15% SDS-PAGE showing ab115705 at approximately 23.1kDa (3µg).

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