

For Research Use Only

# UPK1A Polyclonal antibody

Catalog Number: 25275-1-AP

2 Publications



## Basic Information

### Catalog Number:

25275-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG17356

### GenBank Accession Number:

BC107098

### GeneID (NCBI):

11045

### UNIPROT ID:

O00322

### Full Name:

uroplakin 1A

### Calculated MW:

258 aa, 29 kDa

### Observed MW:

29 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate  
IHC 1:2500-1:10000

## Applications

### Tested Applications:

IP, IHC, ELISA

### Cited Applications:

IF, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

IP: mouse bladder tissue,

IHC: human bladder tissue, rat bladder tissue, mouse bladder tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Uroplakins are a group of urothelial differentiation-related membrane proteins. They are components of the asymmetric unit membrane (AUM), which forms the apical plaques of mammalian urothelium and is believed to play a role in strengthening the urothelial apical surface thus preventing the cells from rupturing during bladder distention (PMID: 8175808). Uroplakin-1a (UPK1A) belongs to the tetraspanin (TM4SF) family. UPK1A plays an important role in normal bladder epithelial physiology, possibly in regulating membrane permeability of superficial umbrella cells or in stabilizing the apical membrane.

## Notable Publications

| Author              | Pubmed ID | Journal        | Application |
|---------------------|-----------|----------------|-------------|
| Cong Li             | 31885626  | Stem Cells Int | IF          |
| Maki Kawasaki-Nanri | 27020040  | Int J Urol     | IHC         |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

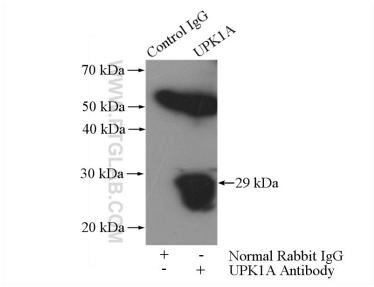
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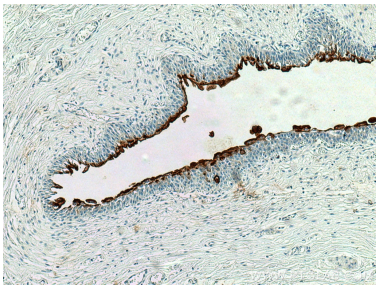
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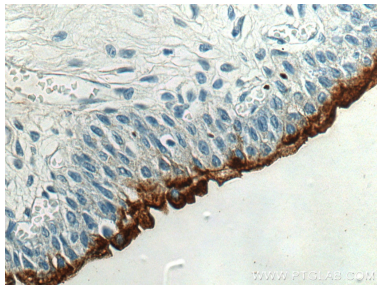
Selected Validation Data



IP result of anti-UPK1A (IP:25275-1-AP, 4ug;  
Detection:25275-1-AP 1:300) with mouse bladder  
tissue lysate 3200ug.



Immunohistochemical analysis of paraffin-  
embedded human bladder tissue slide using  
25275-1-AP (UPK1A antibody) at dilution of 1:5000  
(under 10x lens)..



Immunohistochemical analysis of paraffin-  
embedded human bladder tissue slide using  
25275-1-AP (UPK1A antibody) at dilution of 1:5000  
(under 40x lens)..