

For Research Use Only

# UPK2 Polyclonal antibody

Catalog Number: 21149-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 21149-1-AP	<b>GenBank Accession Number:</b> BC113900	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 900 µg/ml by Nanodrop and 473 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7379	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> uroplakin 2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 184 aa, 19 kDa	
<b>Immunogen Catalog Number:</b> AG15694	<b>Observed MW:</b> 28 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB:</b> mouse testis tissue, mouse kidney tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC:</b> human bladder tissue,
<b>Cited Species:</b> human, rat	

**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-2 (UPK2) is a single-pass type I membrane protein. UPK2 may play an important role in regulating the assembly of the AUM.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuta Inoue	31554870	Sci Rep	IF
Changhao Hou	36928109	Biofabrication	IF
Hidenori Akaihata	36835398	Int J Mol Sci	WB, IHC

## Storage

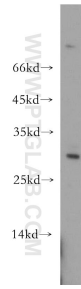
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

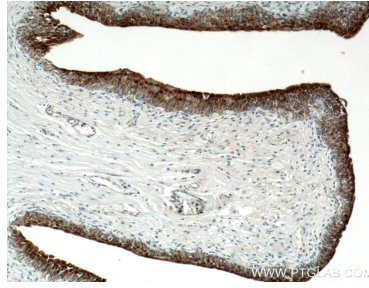
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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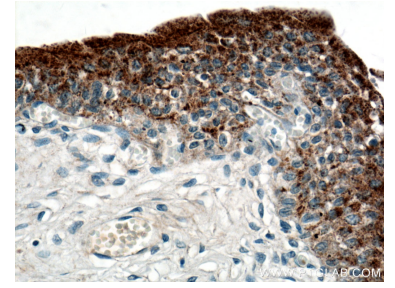
## Selected Validation Data



mouse testis tissue were subjected to SDS PAGE followed by western blot with 21149-1-AP (UPK2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human bladder tissue slide using 21149-1-AP (UPK2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human bladder tissue slide using 21149-1-AP (UPK2 Antibody) at dilution of 1:200 (under 40x lens).