

# UPK1A Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9225b

## Product Information

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|-------------------|------------------------|
| Application       | WB, E                  |
| Primary Accession | <a href="#">O00322</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Clone Names       | RB23236                |
| Calculated MW     | 28879                  |
| Antigen Region    | 191-217                |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 11045                                                                                                                                                                        |
| Other Names        | Uroplakin-1a, UP1a, Tetraspanin-21, Tspan-21, Uroplakin Ia, UPIa, UPKa, UPK1A, TSPAN21                                                                                       |
| Target/Specificity | This UPK1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 191-217 amino acids from the C-terminal region of human UPK1A.       |
| Dilution           | WB~~1:1000 E~~Use at an assay dependent concentration.                                                                                                                       |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                      |
| Precautions        | UPK1A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.                                                                    |

## Protein Information

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | UPK1A                                                                                                                                           |
| Synonyms | TSPAN21                                                                                                                                         |
| Function | Component of the asymmetric unit membrane (AUM); a highly specialized biomembrane elaborated by terminally differentiated urothelial cells. May |

play an important role in normal bladder epithelial physiology, possibly in regulating membrane permeability of superficial umbrella cells or in stabilizing the apical membrane through AUM/cytoskeletal interactions (By similarity).

**Cellular Location**

Membrane; Multi-pass membrane protein.

**Tissue Location**

High expression restricted to ureteric urothelium (most superficial cells); low expression in prostate. Expression in normal urothelial cells is lost in culture. Some expression in tumor cell lines derived from urothelial malignancies

## Background

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The protein is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is found in the asymmetrical unit membrane (AUM) where it can complex with other transmembrane 4 superfamily proteins. It may play a role in normal bladder epithelial physiology, possibly in regulating membrane permeability of superficial umbrella cells or in stabilizing the apical membrane through AUM/cytoskeletal interactions.

## References

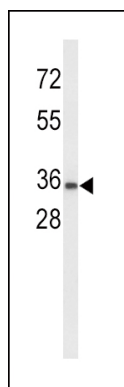
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Wang,H., et.al., J. Mol. Biol. 392 (2), 352-361 (2009)

Hall,G.D., et.al., Biochim. Biophys. Acta 1729 (2), 126-134 (2005)

## Images

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Western blot analysis of UPK1A Antibody (C-term) (Cat. #AP9225b) in K562 cell line lysates (35ug/lane). UPK1A (arrow) was detected using the purified Pab.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.