# UPK3A Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | UPK3A, Polyclonal Antibody |
| **Full Product Name** | UPK3A (Uroplakin-3A, UP3a, UPIIIa) (MaxLight 650) |
| **Product Gene Name** | anti-UPK3A antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human UPK3A. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 30 |
| **OMIM** | 191830 |
| **3D Structure** | ModBase 3D Structure for O75631 |
| **Immunogen** | Synthetic peptide corresponding to aa260-279 (GASESSYTSVNRGPPLDRAE) from human UPK3A. |
| **Conjugate** | MaxLight650 |
| **Positive Control** | HEK2 93 cells or bladder carcinoma |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-UPK3A antibody** | Antibodies; Carbohydrates; Glycoproteins |
| **Applications Tested/Suitable for anti-UPK3A antibody** | Flow Cytometry (FC/FACS), Western Blot (WB), Immunofluorescence (IF), Immunoprecipitation (IP) |
| **Application Notes for anti-UPK3A antibody** | FC/FACS: 0.5-1ug/10e6 cells<br>WB: 0.5-1ug/ml<br>IF: 1-2ug/ml<br>IP: 1-2ug/500ug protein lysate<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-UPK3A antibody** | MBS6403394 is an antibody targeting UPK3A. Also known as UPK3A (Uroplakin-3A, UP3a, UPIIIa) (MaxLight 650). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-UPK3A antibody** | 1. Lai Y et. al. 2010. UPK3A: a promising novel urinary marker for the detection of bladder cancer. Urology 76, 514; 2009. |
| **Other Notes** | Small volumes of anti-UPK3A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UPK3A. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 266456217 |
| **NCBI GeneID** | 7380 |
| **NCBI Accession #** | NP_001161046 |
| **UniProt Primary Accession #** | O75631 |
| **UniProt Related Accession #** | O75631 |
| **GenBank Nucleotide #** | NP_001161046.1 |
| **NCBI Official Full Name** | uroplakin-3a isoform 2 |
| **NCBI Official Synonym Full Names** | uroplakin 3A |
| **NCBI Official Symbol** | UPK3A |
| **NCBI Official Synonym Symbols** | UP3A; UPK3; UPIII; UPIIIA |
| **UniProt Protein Name** | Uroplakin-3a |
| **UniProt Synonym Protein Names** | Uroplakin III |
| **Protein Family** | Uroplakin |
| **UniProt Gene Name** | UPK3A |
| **UniProt Synonym Gene Names** | UPK3; UP3a; UPIII |
| **UniProt Entry Name** | UPK3A_HUMAN |
| **NCBI Protein Information** | uroplakin-3a |
| **NCBI Summary for UPK3A** | This gene encodes a member of the uroplakin family, a group of transmembrane proteins that form complexes on the apical surface of the bladder epithelium. Mutations in this gene may be associated with renal adysplasia. Alternatively spliced transcript variants have been described.[provided by RefSeq, Nov 2009] |
| **UniProt Comments for UPK3A** | UPK3A: 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. Defects in UPK3A are a cause of renal adysplasia (RADYS); 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. Belongs to the uroplakin-3 family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 22q13.31<br><br>Cellular Component: endoplasmic reticulum membrane; apical plasma membrane; integral to membrane<br><br>Biological Process: epithelial cell differentiation; urinary bladder development; water transport; urea transport; cell morphogenesis; sodium ion homeostasis; kidney development; potassium ion homeostasis<br><br>Disease: Renal Hypodysplasia/aplasia 1 |
| **Research Articles on UPK3A** | **1.** UPIIIa is a biomarker for bladder cancer that is unrelated to chemical carcinogenesis |
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