UPK3A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UPK3A, Polyclonal Antibody
Full Product Name	UPK3A (Uroplakin-3A, UP3a, UPIIIa) (FITC)
Product Gene Name	anti-UPK3A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in 10mM PBS. No preservative added. BSA-Free. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human UPK3A.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.
Molecular Weight	30
OMIM	191830
3D Structure	ModBase 3D Structure for O75631
Immunogen	Synthetic peptide corresponding to aa260-279 (GASESSYTSVNRGPPLDRAE) from human UPK3A.
Conjugate	FITC
Positive Control	HEK2 93 cells or bladder carcinoma
Note	Preservative Free
Special Handling	Light sensitive
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 WB: 0.5-1ug/ml IF: 1-2ug/ml IP: 1-2ug/500ug protein lysate Applications are based on unconjugated antibody.
Related Product Information for anti-UPK3A antibody	MBS6403389 is an antibody targeting UPK3A. Also known as UPK3A (Uroplakin-3A, UP3a, UPIIIa) (FITC). 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.

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. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 22q13.31 Cellular Component: endoplasmic reticulum membrane; apical plasma membrane; integral to membrane Biological Process: epithelial cell differentiation; urinary bladder development; water transport; urea transport; cell morphogenesis; sodium ion homeostasis; kidney development; potassium ion homeostasis 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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