

UPK1B Antibody

Catalog # ASC11380

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O75841
Other Accession	NP_008883 , 49619237
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	29643
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	UPK1B antibody can be used for detection of UPK1B by Western blot at 0.5 - 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	7348
Other Names	Uroplakin-1b, UP1b, Tetraspanin-20, Tspan-20, Uroplakin Ib, UPIb, UPK1B, TSPAN20
Target/Specificity	UPK1B; At least two isoforms of UPK1B are known to exist; this antibody will recognize both isoforms. UPK1B antibody is predicted to not cross-react with other tetraspanin protein family members.
Reconstitution & Storage	UPK1B antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	UPK1B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UPK1B
Synonyms	TSPAN20
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

Bladder epithelium.

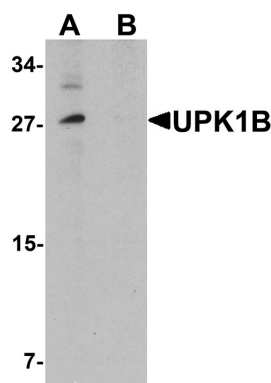
Background

UPK1B Antibody: Uroplakin-1B (UPK1B) 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. UPK1B is found in the asymmetrical unit membrane (AUM) where it can form a complex with other transmembrane 4 superfamily proteins and 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.

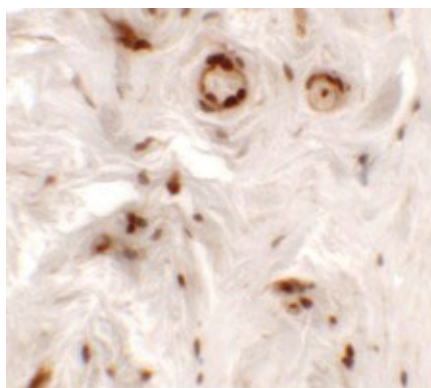
References

Yu J, Lin JH, Wu XR, et al. Uroplakins Ia and Ib, two major differentiation products of bladder epithelium, belong to a family of four transmembrane domain (4TM) proteins. *J. Cell Biol.* 1994; 125:171-82.
Wu XR, Kong XP, Pellicer A, et al. Uroplakins in urothelial biology, function, and disease. *Kidney Int.* 2009; 75:1153-65
Sun TT, Zhao H, Provet J, et al. Formation of asymmetric unit membrane during urothelial differentiation. *Mol. Biol. Rep.* 1996; 23:3-11.

Images

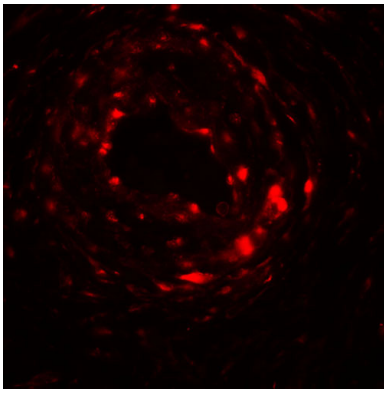


Western blot analysis of UPK1B in mouse bladder tissue lysate with UPK1B antibody at 0.5 $\mu\text{g/mL}$ in the (A) absence and (B) presence of blocking peptide.



Immunohistochemistry of UPK1B in human bladder tissue with UPK1B antibody at 5 $\mu\text{g/mL}$.

Immunofluorescence of UPK1B in human bladder muscle tissue with UPK1B antibody at 20 $\mu\text{g/mL}$.



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