

Mouse Anti-Uroplakin IB [UPK1B/3081]: MC0513, MC0513RTU7

Intended Use: For Research Use Only

Description: The protein encoded by this gene 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 form a 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. UPK1B is expressed by terminally differentiated urothelial cells.

Specifications

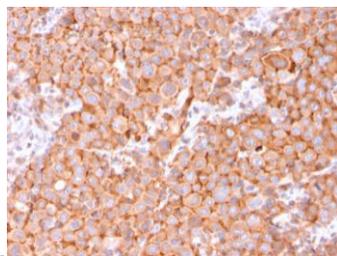
Clone: UPK1B/3081
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA
 Package:

Description	Catalog No.	Size
Uroplakin IB Concentrated	MC0513	1 ml
Uroplakin IB Prediluted	MC0513RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Urinary bladder, urothelial carcinoma
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human urothelial carcinoma stained with anti-Uroplakin IB using DAB

References:

1. Differentiation of human endometrial stem cells into urothelial cells on a three-dimensional nanofibrous silk-collagen scaffold: an autologous cell resource for reconstruction of the urinary bladder wall. Shoaee-Hassani A, et al. J Tissue Eng Regen Med. Nov;9(11):1268-76, 2015.
2. Urothelial umbrella cells of human ureter are heterogeneous with respect to their uroplakin composition: different degrees of urothelial maturity in ureter and bladder? Riedel I, et al. Eur J Cell Biol. ar;84(2-3):393-405, 2005.
3. Human uroplakin Ib in ocular surface epithelium. Adachi W, et al. Invest Ophthalmol Vis Sci. Sep;41(10):2900-5, 2000.