

Mouse Anti-Uroplakin IA [UPK1A/2921]: MC0577, MC0577RTU7

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 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. The protein may also play a role in tumor suppression.

Specifications

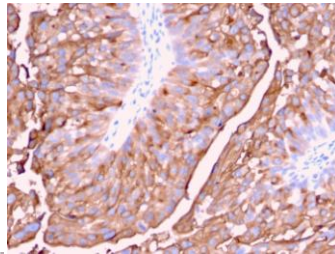
Clone: UPK1A/2921
Source: Mouse
Isotype: IgG2b/k
Reactivity: Human
Localization: Membrane
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, ELISA
Package:

Description	Catalog No.	Size
Uroplakin IA Concentrated	MC0577	1 ml
Uroplakin IA Prediluted	MC0577RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Urinary bladder
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 urinary bladder stained with anti-Uroplakin IA using DAB

References:

1. 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.
2. Uroplakin Ia is the urothelial receptor for uropathogenic Escherichia coli: evidence from in vitro FimH binding. Zhou G, et al. J Cell Sci. Nov;114(Pt 22):4095-103, 2001. In vitro binding of type 1-fimbriated Escherichia coli to
3. Uroplakins Ia and Tb: Relation to urinary tract infections (epithelial differentiation/urothelium/bladder epithelium/receptor). Xue-Ru Wu et al. Proc. Natl. Acad. Sci. USA Vol. 93, pp. 9630-9635, September 1996.