anti-Uroplakin III mouse monoclonal, AU1, supernatant

Cat. No. 651108  
Quantity 5 mL

Product description

Host mouse  
Antibody Type monoclonal  
Isotype IgG1  
Clone AU1  
Immunogen asymmetric unit membrane (AUM) preparation from bovine urinary bladder  
Purification hybridoma cell culture supernatant  
Conjugate unconjugated  
Formulation contains 0.09% sodium azide  
Storage short term at 2 – 8 °C; long term storage in aliquots at - 20 °C; avoid freeze/thaw cycles  
UniprotID P38574  
Tested species reactivity bovine, human, pig, rat  
Intended use Research use only

Applications

Tested applications Immunohistochemistry (IHC) - paraffin  
Tested dilutions ready-to-use (microwave treatment recommended)  
Western Blot (WB) 1:100

Background

Mab AU1 reacts specifically with uroplakin III present in the superficial cell layer of the urothelium. The binding region has been localized on the extracellular part of the protein. Together with the uroplakins UP Ia, UP Ib and UP II, uroplakin III contributes in constituting the asymmetrical unit membrane of the plaques of urothelial superficial (umbrella) cells. Uroplakin is a membrane glycoprotein (47 kD) and has been shown to be a specific marker of terminal urothelial differentiation (Wu et al. 1993 & 1994). Antibody AU1 strongly stains the urothelial surface membrane in paraffin sections of human renal pelvis, ureter, bladder, and urethra. About 60% of human transitional cell carcinomas (including metastases) maintain focal (sometimes very limited) expression of uroplakin III. Until now, no uroplakin staining was found in any non-urothelial carcinoma (Moll et al. 1995). Uroplakin III may thus serve as a specific urothelial differentiation marker in cases of metastatic carcinomas with unclear primary tumor.

Reference

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<th>Publication</th>
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Product Images

**Human bladder lysate**

- Primary antibody: anti-Uroplakin III (Cat. No. 651108) 1:100
- Secondary antibody: anti-mouse HRP (Cat. No. 90002) 1:2,500

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