

**Product:** Anti-Uroplakin III  
**Catalog #:** 03-651108  
**Amount:** 1 ml

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**CATEGORY:** Mouse monoclonal  
**CLONE DETERMINATION:** AU1  
**IMMUNOGLOBULIN CLASS:** IgG1  
**IMMUNOGEN:** Asymmetric unit membrane (AUM) preparation from bovine urinary bladder  
**FORM:** Cell culture supernatant containing 0.09% sodium azide  
**DESCRIPTION/SPECIFICITY:** Mab AU1 reacts specifically with uroplakin III present in the superficial cell layer of the urothelium. Together with the uroplakins UP Ia, UP Ib and UP III, uroplakin III contributes in constituting the asymmetrical unit membrane of the plaques of the urothelial superficial (umbrella) cells. Uroplakin is a membrane glycoprotein (47 kD) and has been shown to be a specific marker of terminal urothelial differentiation. Mab 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. Uroplakin III may thus serve as a specific urothelial differentiation marker in cases of metastatic carcinoma with unclear primary tumor.

**ANTIGEN RECOGNIZED IN****SPECIES (tested so far):****APPLICATION:**

human, bovine, pig, rat

Immunoblotting

Immunohistochemistry of paraffin-embedded tissue

Using a heat-induced retrieval method (microwave

Treatment); (**not** for frozen sections!)**WORKING DILUTION:****INCUBATION TIME:****STORAGE:**

Ready to use for immunohistochemistry

1 hour at room temperature for immunohistochemistry

2-8°C

## REFERENCES:

Wu, XR &amp; Sun TT (1993) J. Cell Sci. 106: 31-43

Wu, XR et al. (1994) J. Biol. Chem. 269: 13716-13724

Moll R et al. (1995). Am. J. Pathol. **147**: 1383-1397

Romih R et al. (1998) Histochem. Cell Biol, 109: 263-269

Kauffmann, O. et al. (2000) Am. J. Clin. Pathol. 113: 683-687

Hu P et al. (2000) J. Cell Biol. 151: 961-971

Riedel I et al. (2001) Virchows Arch. 438: 181-191

**RECOMMENDATION:**Centrifuge the vial (low speed) before use,  
to ensure the total recovery of entire volume