

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

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): human, bovine
APPLICATION: Immunoblotting
Immunohistochemistry of paraffin-embedded tissue (not for frozen sections!)

WORKING DILUTION: Ready to use for immunohistochemistry
INCUBATION TIME: 1 hour at room temperature for immunohistochemistry
STORAGE: 2-8°C

REFERENCES:

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Wu, XR et al. (1994) J. Biol. Chem. 269: 13716-13724
Moll R et al. (1995). Am. J. Pathol. **147**: 1383-1397
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Kauffmann, O. et al. (2000) Am. J. Clin. Pathol. 113: 683-687
Hu P et al. (2000) J. Cell Biol. 151: 961-971
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