anti-Uroplakin III mouse monoclonal, AU1, lyophilized, purified

Cat. No. 610108
Quantity 50 µg

Product description

Host mouse
Antibody Type monoclonal
Isotype IgG1
Clone AU1
Immunogen asymmetric unit membrane (AUM) preparation from bovine urinary bladder
Purification protein A affinity chromatography
Conjugate unconjugated
Formulation lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09 % sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
Storage short term at 2 – 8 °C; long term storage in aliquots at - 20 °C; avoid freeze/ thaw cycles
Tested species reactivity bovine, human, pig, rat

Applications

Tested applications
Immunohistochemistry (IHC) - paraffin 1:10 - 1:30 (microwave treatment recommended)
Western Blot (WB) assay dependent

Tested dilutions

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 antigen. Together with the uropilaks 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 & 1194).

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

<table>
<thead>
<tr>
<th>Publication</th>
<th>Species</th>
<th>Application</th>
</tr>
</thead>
</table>