

URO-10 (T43): sc-58889

BACKGROUND

Urothelium refers to the tissue layer that lines most of the urinary tract, including the renal pelvis, the ureters, bladder and parts of the urethra. Urothelium is the most specialized epithelium in the body and plays important and conflicting roles: the urothelium must act as a permeability barrier, protecting underlying tissues against noxious urine components, while also stretching to accommodate urine pressures. Urothelium consists of three to five cell layers accompanied by a thick layer of protective glycoprotein plaques at its luminal surface. Urothelium is especially susceptible to carcinoma due to its direct contact with the concentrated chemicals in urine for extended periods of time. URO-10 is a surface glycoprotein present in proximal tubules, invasive bladder tumors and a variety of other cancers. Additionally, URO-10 is expressed on basal cell layers of skin, exocervix, esophagus and occasional cells in the thymus.

REFERENCES

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3. Blouin, P., Guiot, M.C. and Jothy, S. 1989. Definition of the human renal cell carcinoma phenotype using monoclonal and polyclonal antibodies: a tumor marker study. *Exp. Pathol.* 36: 147-163.
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SOURCE

URO-10 (T43) is a mouse monoclonal antibody raised against T24 bladder cancer cell line of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

URO-10 (T43) is available conjugated to agarose (sc-58889 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-58889 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-58889 PE), fluorescein (sc-58889 FITC), Alexa Fluor® 488 (sc-58889 AF488), Alexa Fluor® 546 (sc-58889 AF546), Alexa Fluor® 594 (sc-58889 AF594) or Alexa Fluor® 647 (sc-58889 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-58889 AF680) or Alexa Fluor® 790 (sc-58889 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

URO-10 (T43) is recommended for detection of URO-10 of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of URO-10: 85 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

SELECT PRODUCT CITATIONS

1. Oo, Z.Y., Deng, R., Hu, M., Ni, M., Kandasamy, K., bin Ibrahim, M.S., Ying, J.Y. and Zink, D. 2011. The performance of primary human renal cells in hollow fiber bioreactors for bioartificial kidneys. *Biomaterials* 32: 8806-8815.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.