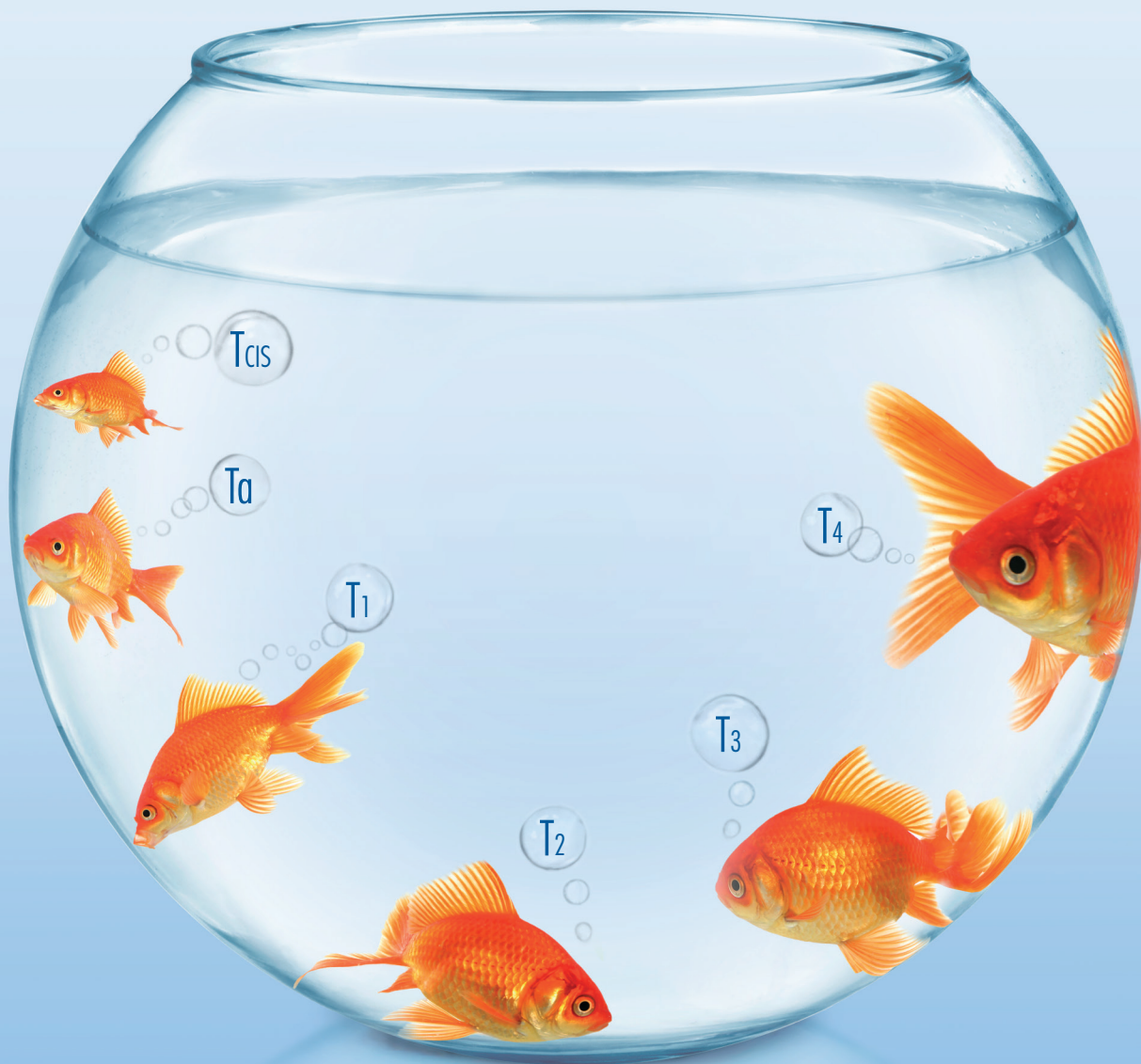


ZytoLight[®]

Products for FISH analysis

The ZytoLight[®] Bladder Cancer Probe Pool

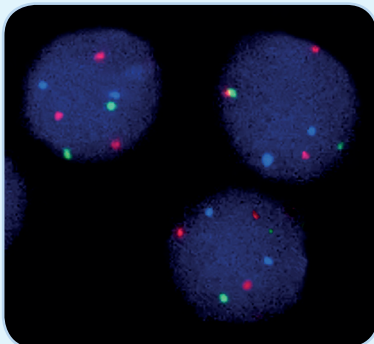
ZytoLight[®] Bladder Cancer Quadruple Color Probe



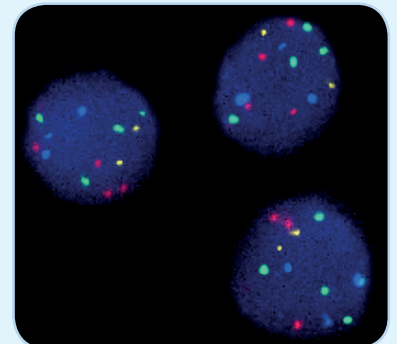
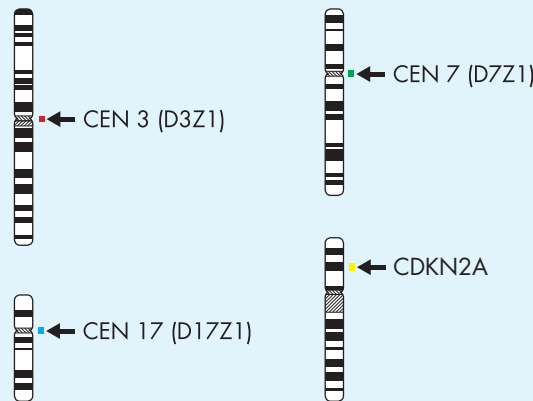
FISH Application in Bladder Cancer

The **ZytoLight® Bladder Cancer Quadruple Color Probe** is designed to detect CDKN2A (a.k.a. p16) deletions and aneuploidy of chromosomes 3, 7, and 17 in cytology specimens of tumors, e.g., in urine samples from patients with hematuria suspected of having bladder cancer (BC). BC represents the ninth most common cancer worldwide. About 430,000 new BC cases and 165,000 BC deaths occurred in 2012. Most of these tumors are non-invasive, well-differentiated, papillary tumors (pTa, low grade) and can be cured by endoscopic transurethral resection. However, up to 70% of pTa and superficially invasive (pT1) tumors recur and of these, 15-30% are characterized by tumor progression. **Homozygous deletion of the CDKN2A gene at 9p21.3 and polysomy of chromosomes 3, 7, and/or 17 are common abnormalities observed in urothelial cell carcinoma, all of which can be detected by FISH.** Moreover, it has been shown that the detection of CDKN2A deletions and/or aneusomies of chromosomes 3, 7, and/or 17 may be used for the surveillance of patients with a history of bladder cancer to early detect possible tumor recurrence. It can detect recurrence earlier than other methods like cytology, cystoscopy, or biopsy histological examination.

ZytoLight® SPEC Bladder Cancer Quadruple Color Probe



Urothelial cell culture with homozygous deletion of CDKN2A and trisomy 3 as indicated by no gold and three red signals in each nucleus.



Urothelial cell line with polysomy of chromosomes 3, 7, and 17 as indicated by 3-4 red, green, and blue signals in each nucleus.

Bladder Cancer Probes of the ZytoLight® Portfolio

Prod. No.	Product	Label	Tests* (Volume)
Z-2305-50/-200	ZytoLight Bladder Cancer Quadruple Color Probe CE <input type="checkbox"/> IVD NEW	●/●/●/●	5/20 (50/200 µl)
Z-2071-50/-200	ZytoLight SPEC CCND1/CEN 11 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2063-50/-200	ZytoLight SPEC CDKN2A/CEN 9 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2015-50/-200	ZytoLight SPEC ERBB2/CEN 17 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2168-50/-200	ZytoLight SPEC FGFR1 Dual Color Break Apart Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2072-50/-200	ZytoLight SPEC FGFR1/CEN 8 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2170-50/-200	ZytoLight SPEC FGFR3 Dual Color Break Apart Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2082-200	ZytoLight SPEC FGFR3/4p11 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	20 (200 µl)
Z-2013-50/-200	ZytoLight SPEC MDM2/CEN 12 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2092-50/-200	ZytoLight SPEC MYC/CEN 8 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2078-50/-200	ZytoLight SPEC PTEN/CEN 10 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)
Z-2165-50/-200	ZytoLight SPEC RB1/13q12 Dual Color Probe CE <input type="checkbox"/> IVD	●/●	5/20 (50/200 µl)

Related Products

Z-2099-20	ZytoLight FISH-Cytology Implementation Kit CE <input type="checkbox"/> IVD		20
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Ind. Cytology Pepsin Solution, 4 ml; 20x Wash Buffer TBS, 50 ml; 10x MgCl₂, 50 ml; 10x PBS, 50 ml; Cytology Stringency Wash Buffer SSC, 500 ml; Cytology Wash Buffer SSC, 500 ml; DAPI/DuraTect-Solution, 0.8 ml

* Using 10 µl probe solution per test. CE IVD only available in certain countries. All other countries research use only! Please contact your local dealer for more information.

References

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 Dimashkieh H, et al. (2013) Cancer Cytopathol 121: 591-7.
 Junker K, et al. (2006) Cytogenet Genome Res 114: 279-83.
 Placer J, et al. (2002) Eur Urol 42: 547-52.
 Sokolova IA, et al. (2000) J Mol Diagn 2: 116-23.

