Zyto Light ® SPEC TP63/TBL1XR1 TriCheck™ Probe



Background

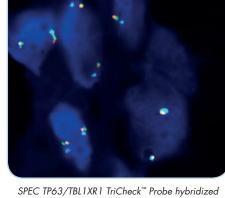
The ZytoLight ® SPEC TP63/TBL1XR1 TriCheck™ Probe (PL274) is intended to be used for the qualitative detection of rearrangements involving the human TP63 gene at 3q28 and the human TBL1XR1 gene at 3q26.32 in formalin-fixed, paraffin-embedded specimens by fluorescence in situ hybridization (FISH). The probe is intended to be used in combination with the ZytoLight ® FISH-Tissue Implementation Kit (Prod. No. Z-2028-5/-20).

Interpretation of the results must be made within the context of the patient's clinical history with respect to further clinical and pathologic data of the patient by a qualified pathologist.

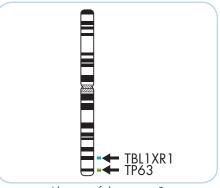
Probe Description

The ZytoLight ® SPEC TP63/TBL1XR1 TriCheck™ Probe is composed of:

- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10.0 ng/µl), which target sequences mapping in 3q28** (chr3:189,559,557-190,097,196) distal to the TP63 breakpoint region.
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 3q28** (chr3:188,995,562-189,305,431) proximal to the TP63 breakpoint region.
- ZyBlue (excitation 418 nm/emission 467 nm) labeled polynucleotides (~37.0 ng/ ul), which target sequences mapping in 3q26.32** (chr3:176,217,831-177,284,492) harboring the TBL1XR1 gene region.
- Formamide based hybridization buffer



to normal interphase cells with non-rearranged TP63 loci (two orange/green fusion signals), and non-rearranged TBL1XR1 loci (two blue signals).



Ideogram of chromosome 3 indicating the hybridization locations.

RH122820 PMC25851P1 D3S3076 RH13437 TP63 ~310 kb ~540 kb **-** 3q28 SPEC TP63 Probe map (not to scale).



SPEC TBL1XR1 Probe map (not to scale).

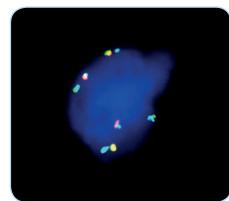
blue signals are expected. A TBL1XR1-TP63 inversion is indicated by one separate green signal, one separate orange signal, and an additional blue signal. The separate green and orange signal each co-localize with a blue signal. A TP63 translocation not affecting TBL1XR1 is indicated by separated orange and green signals without an additional blue signal.

In an interphase nucleus without rear-

rangements of the TP63/TBL1XR1 loci,

two green/orange fusion signals and two

Results



T-cell lymphoma cell line with a TBL1XR1-TP63 inversion as indicated by separate green signals, separate orange signals, each co-localizing with a blue signal.

Prod. No.	Product	Label	Tests* (Volume)
Z-2320-50	Zyto <i>Light</i> SPEC TP63/TBL1XR1 TriCheck™ Probe C € IVD	•/•/•	5 (50 µl)
Related Products			
Z-2028-5	Zyto Light FISH-Tissue Implementation Kit C € IVD Incl. Heat Pretreatment Solution Citric, 150 ml; Pepsin Solution, 1 ml; Wash Buffer SSC, 210 ml; 25x Wash Buffer A, 50 ml; DAPI/DuraTect-Solution, 0.2 ml		5
Z-2028-20	Zyto Light FISH-Tissue Implementation Kit C € IVD Incl. Heat Pretreatment Solution Citric, 500 ml; Pepsin Solution, 4 ml; Wash Buffer SSC, 560 ml; 25x Wash Buffer A, 100 ml; DAPI/DuraTect-Solution, 0.8 ml		20

^{*} Using 10 µl probe solution per test. IVD labeled products are only available in certain countries. All other countries research use only! Please contact your local dealer for more information. **According to Human Genome Assembly GRCh37/hg19

Molecular diagnostics simplified FE174-1-22

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