

ZytoLight® 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.

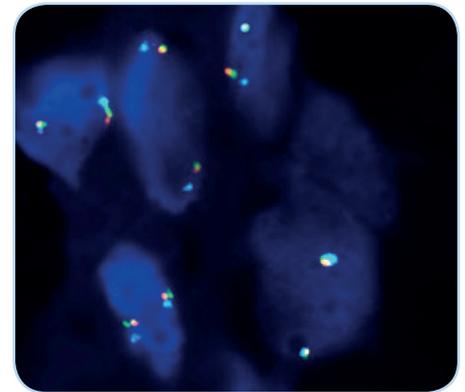
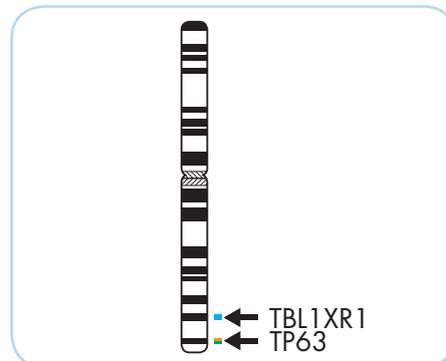
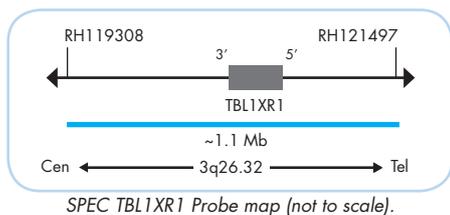
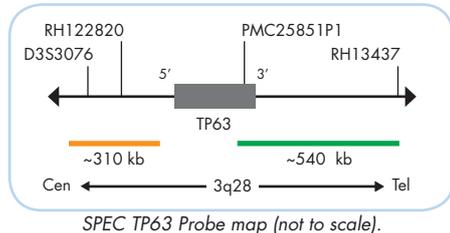
Probe Description

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

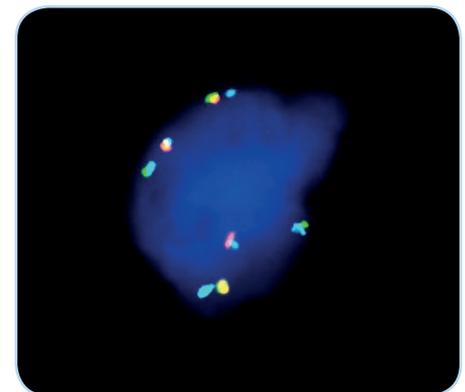
- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10.0 ng/μl), which target sequences mapping in 3q28** (chr3:189,559,557-190,097,196) distal to the TP63 breakpoint region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/μl), which target sequences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

Results

In an interphase nucleus without rearrangements of the TP63/TBL1XR1 loci, two green/orange fusion signals and two 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.



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



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	ZytoLight SPEC TP63/TBL1XR1 TriCheck™ Probe		5 (50 μl)
Related Products			
Z-2028-5	ZytoLight FISH-Tissue Implementation Kit 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	ZytoLight FISH-Tissue Implementation Kit 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. 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