Zyto Light ® SPEC TERT/5q31 Dual Color Probe



Background

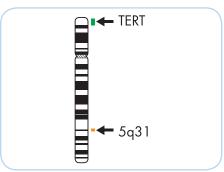
The ZytoLight ® SPEC TERT/5q31 Dual Color Probe (PL50) is intended to be used for the qualitative detection of amplifications involving the human TERT gene as well as the detection of chromosome 5q31 specific sequences in formalin-fixed, paraffin-embedded specimens by fluorescence in situ hybridization (FISH). The probe is intended to be used in combination with the ZytoLight ® FISH-Tissue Implementation Kit (Prod. No. Z-2028-5/-20).

The product is intended for professional use only. All tests using the product should be performed in a certified, licensed anatomic pathology laboratory under the supervision of a pathologist/human geneticist by qualified personnel. The probe is intended to be used as an aid to the differential diagnosis of various cancers and therapeutic measures should not be initiated based on the test result alone.

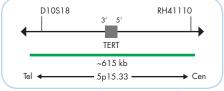
Probe Description

The ZytoLight ® SPEC TERT/5q31 Dual Color Probe is composed of:

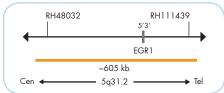
- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/µl), which target sequences mapping in 5p15.33** (chr5:974,089-1,588,209) harboring the TERT gene region.
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 5q31.2** (chr5:137,394,637-137,999,163).
- · Formamide based hybridization buffer



Ideogram of chromosome 5 indicating the hybridization locations.



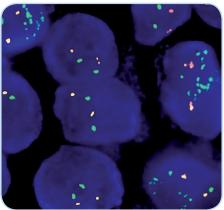
SPEC 5p15 Probe map (not to scale).



SPEC 5q31 Probe map (not to scale).

Results

In a normal interphase nucleus two orange and two green signals are expected. In a cell with amplification of the TERT gene locus or aneuploidy of chromosome 5, multiple copies of the green signal or green signal clusters will be observed.



Example of an aberrant signal pattern: SPEC TERT/5q31 Dual Color Probe hybridized to melanoma tissue section showing normal cells as indicated by two green and two orange signals in each nucleus and cells with TERT gene amplification as indicated by multiple green signals per nucleus.

Prod. No.	Product	Label	Tests* (Volume)
Z-2091-50	Zyto <i>Light</i> SPEC TERT/5q31 Dual Color Probe C € IVD	•/•	5 (50 µl)
Z-2091-200	Zyto <i>Light</i> SPEC TERT/5q31 Dual Color Probe C € IVD	•/•	20 (200 µl)
Related Products			
Z-2028-5	Zyto Light FISH-Tissue Implementation Kit C E 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 E 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. 🚾 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