Zyto Light ® SPEC TP53/CEN 17 Dual Color Probe



Background

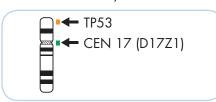
The ZytoLight ® SPEC TP53/CEN 17 Dual Color Probe (PL109) is intended to be used for the qualitative detection of deletions involving the human TP53 gene as well as the detection of chromosome 17 alpha satellites in cytologic or formalin-fixed, paraffin-embedded specimens by fluorescence in situ hybridization (FISH). The probe is intended to be used in combination with ZytoLight ® FISH Implementation Kits (Prod. No. Z-2028-5/-20, or Z-2099-20).

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.

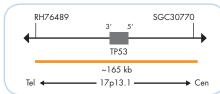
Probe Description

The ZytoLight ® SPEC TP53/CEN 17 Dual Color Probe is composed of:

- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 17p13.1** (chr17:7,495,749-7,663,022) harboring the TP53 gene
- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 17p11.1-q11.1 specific for the alpha satellite centromeric region D17Z1 of chromosome 17.
- · Formamide based hybridization buffer



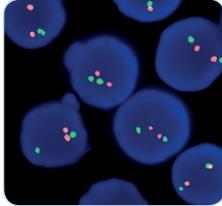
Ideogram of chromosome 17 indicating the hybridization locations.



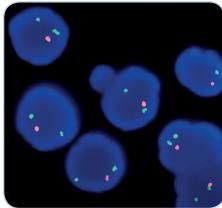
SPEC TP53 Probe map (not to scale).

Results

In a normal interphase nucleus, two orange and two green signals are expected. In a cell with deletions affecting the TP53 gene locus, one or no copy of the orange signal will be observed.



SPEC TP53/CEN 17 Dual Color Probe hybridized to normal interphase cells as indicated by two orange and two green signals in each nucleus.



Example of an aberrant signal pattern: SPEC TP53/CEN 17 Dual Color Probe hybridized to bone marrow tissue section with deletion of the TP53 gene as indicated by one orange signal and two green signals in each nucleus.

Prod. No.	Product	Label	Tests* (Volume)
Z-2153-50	Zyto <i>Light</i> SPEC TP53/CEN 17 Dual Color Probe C € IVD	o/o	5 (50 µl)
Z-2153-200	Zyto <i>Light</i> SPEC TP53/CEN 17 Dual Color Probe C € IVD	o/o	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 & 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
Z-2099-20	ZytoLight FISH-Cytology Implementation Kit C E IVD Incl. Cytology Pepsin Solution, 4 ml; 20x Wash Buffer TBS, 50 ml; 10x MgCl ₂ , 50 ml; 10x PBS, 50 ml; Cytology Stringency Wash Buffer SSC, 500 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