

# ZytoLight® SPEC 11q gain/loss Triple Color Probe



## Background

The ZytoLight® SPEC 11q gain/loss Triple Color Probe (PL174) is intended to be used for the qualitative detection of human 11q alterations involving human 11q23.3 and 11q24.1-q25 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.

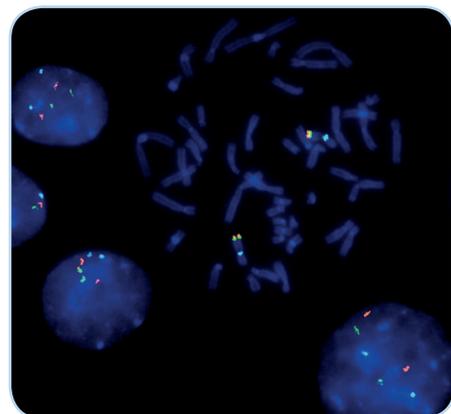
## Probe Description

The ZytoLight® SPEC 11q gain/loss Triple Color Probe is composed of:

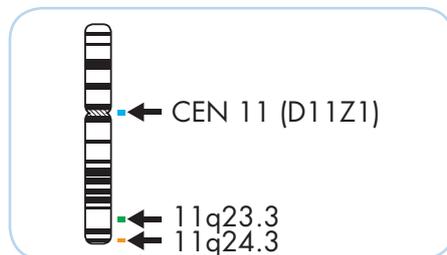
- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/μl), which target sequences mapping in the minimal gained region (MGR) at 11q23.3\*\* (chr11:117,574,074-118,284,029).
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/μl), which target sequences mapping in the minimal loss region (MLR) at 11q24.3\*\* (chr11:128,707,454-129,161,227).
- ZyBlue (excitation 418 nm/emission 467 nm) labeled polynucleotides (~12 ng/μl), which target sequences mapping in 11p11.11-q11 specific for the alpha satellite centromeric region D11Z1 of chromosome 11.
- Formamide based hybridization buffer

## Results

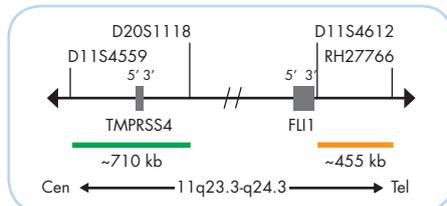
In a normal interphase nucleus, two green, two orange, and two blue signals are expected. In a cell with amplification at 11q23.3 and deletion at 11q24.3, multiple copies of the green signals and a reduced number of orange signals will be observed.



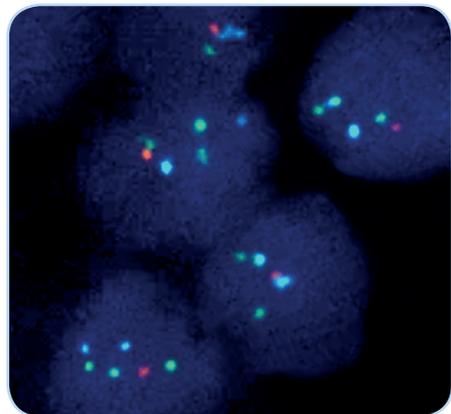
SPEC 11q gain/loss Triple Color Probe hybridized to normal interphase cells as indicated by two green, two orange, and two blue signals per nucleus and to metaphase chromosomes of a normal cell.



Ideogram of chromosome 11 indicating the hybridization locations.



SPEC 11q Probe map (not to scale).



Example of an aberrant signal pattern: Burkitt-like lymphoma tissue section with 11q aberration as indicated by three green signals and one orange signal indicating the gain and loss at 11q, respectively.

Prod. No.	Product	Label	Tests* (Volume)
Z-2216-50	ZytoLight SPEC 11q gain/loss Triple Color Probe CE IVD	●/●/●	5 (50 μl)
<b>Related Products</b>			
Z-2028-5	ZytoLight FISH-Tissue Implementation Kit CE IVD		5
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			

\* 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