Zyto Light ® SPEC BCL2 Dual Color Break Apart Probe



Background

The ZytoLight ® SPEC BCL2 Dual Color Break Apart Probe (PL150) is intended to be used for the qualitative detection of translocations involving the human BCL2 gene at 18q21.33 in formalin-fixed, paraffin-embedded specimens, such as B-cell lymphoma, 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).

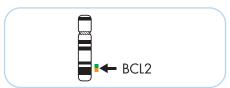
The product is intended for professional use only. All tests using the product should be performed in a certified, licensed anatomic pathology laboratory under the supervision of a pathologist/human geneticist by qualified personnel.

The probe is intended to be used as an aid to the differential diagnosis of B-cell lymphoma and therapeutic measures should not be initiated based on the test result alone.

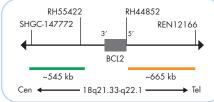
Probe Description

The ZytoLight ® SPEC BCL2 Dual Color Break Apart Probe is composed of:

- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/µl), which target sequences mapping in 18q21.33** (chr18:60,046,152-60,589,273) proximal to the BCL2 breakpoint region.
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 18q21.33-q22.1** (chr18:60,994,528-61,658,503) distal to the BCL2 breakpoint region.
- · Formamide based hybridization buffer



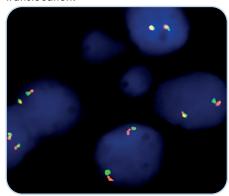
Ideogram of chromosome 18 indicating the hybridization locations



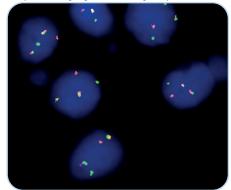
SPEC BCL2 Probe map (not to scale).

Results

In an interphase nucleus lacking a translocation involving the 18q21.33-q22.1 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 18q21.33-q22.1 loci. A signal pattern consisting of one orange/ green fusion signal, one orange signal, and a separate green signal indicates one normal 18q21.33-q22.1 locus and one 18q21.33-q22.1 locus affected by a translocation.



SPEC BCL2 Dual Color Break Apart Probe hybridized to normal interphase cells as indicated by two orange/green fusion signals per nucleus.



Neck lymph node tissue section with translocation of the BCL2 gene as indicated by two non-rearranged orange/green fusion signals, one orange and one separate green signal.

Prod. No.	Product	Label	Tests* (Volume)
Z-2192-50	Zyto <i>Light</i> SPEC BCL2 Dual Color Break Apart Probe C € 0124 IVD	•/•	5 (50 µl)
Z-2192-200	Zyto Light SPEC BCL2 Dual Color Break Apart Probe C ϵ_{0124} IVD	•/•	20 (200 µl)
Related Prod	ucts		
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		20
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. 🚾 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

