

Zyto Light® SPEC MYC Dual Color Break Apart Probe



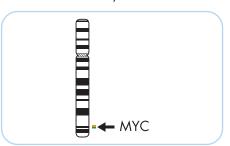
Background

The ZytoLight ® SPEC MYC Dual Color Break Apart Probe (PL49) is intended to be used for the qualitative detection of translocations involving the human MYC gene at 8q24.21 in cytologic or formalin-fixed, paraffin-embedded specimens, such as diffuse large B-cell lymphoma (DLBCL) or Burkitt lymphoma (BL), by fluorescence in situ hybridization (FISH). The probe is intended to be used in combination with the 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 DLBCL or BL and therapeutic measures should not be initiated based on the test result alone.

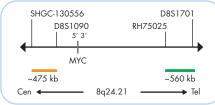
Probe Description

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

- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10.0 ng/µl), which target sequences mapping in 8q24.21** (chr8:130,373,051-130,930,673) distal to the MYC breakpoint region.
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 8q24.21** (chr8:127,888,765-128,363,281) proximal to the MYC breakpoint region.
- · Formamide based hybridization buffer



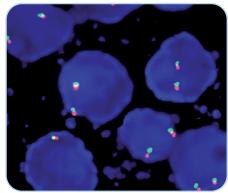
Ideogram of chromosome 8 indicating the hybridization locations.



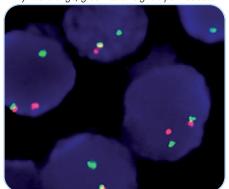
SPEC MYC Probe map (not to scale).

Results

In an interphase nucleus lacking a translocation involving the 8q24.21 band two orange/green fusion signals are expected representing two normal (non-rearranged) 8q24.21 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 8q24.21 locus and one 8q24.21 locus affected by an 8q24.21 translocation.



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



Burkitt lymphoma tissue section with translocation affecting the 8q24.21 locus as indicated by one non-rearranged orange/green fusion signal, one orange signal, and one separate green signal.

Prod. No.	Product	Label	Tests* (Volume)
Z-2090-50	Zyto Light SPEC MYC Dual Color Break Apart Probe C $\epsilon_{\scriptscriptstyle 0124}$ IVD	•/•	5 (50 µl)
Z-2090-200	Zyto <i>Light</i> SPEC MYC Dual Color Break Apart Probe C € 0124 IVD	•/•	20 (200 µl)
Related Products			
Z-2028-5	Zyto Light FISH-Tissue Implementation Kit C \in IVD Ind. Heat Pretreatment Solution Citric, 150 ml; Pepsin Solution, 1 ml; Wash Buffer SSC, 210 ml; 25x Wash Buffer A, 50 ml; DAPI/Dura Tect-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	Zyto Light FISH-Cytology Implementation Kit C € 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; Cytology Wash Buffer SSC, 500 ml; DAPI/DuroTect-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