

# ZytoLight® SPEC BCL6 Dual Color Break Apart Probe



## Background

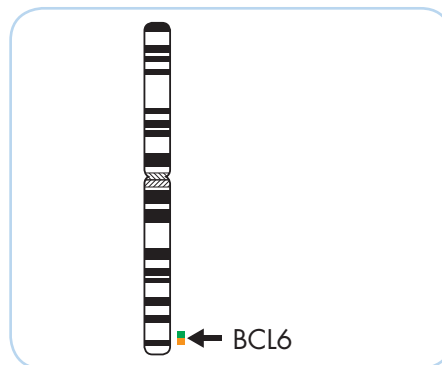
The ZytoLight® SPEC BCL6 Dual Color Break Apart Probe (PL136) is intended to be used for the qualitative detection of translocations involving the human BCL6 gene at 3q27.3 in formalin-fixed, paraffin-embedded specimens, such as B-cell lymphoma, by fluorescence *in situ* hybridization (FISH). The probe 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.

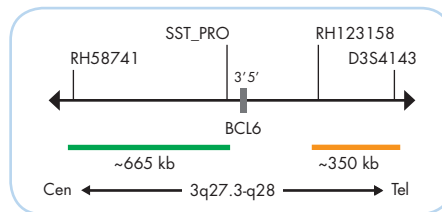
## Probe Description

The ZytoLight® SPEC BCL6 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 3q27.3\*\* (chr3:186,737,897-187,403,834) proximal to the BCL6 breakpoint region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/μl), which target sequences mapping in 3q27.3-q28\*\* (chr3:187,744,962-188,097,195) distal to the BCL6 breakpoint region.
- Formamide based hybridization buffer



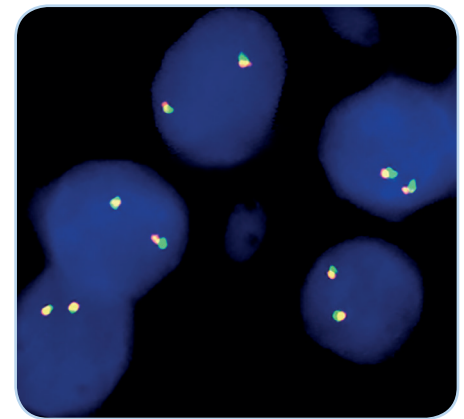
Ideogram of chromosome 3 indicating the hybridization locations.



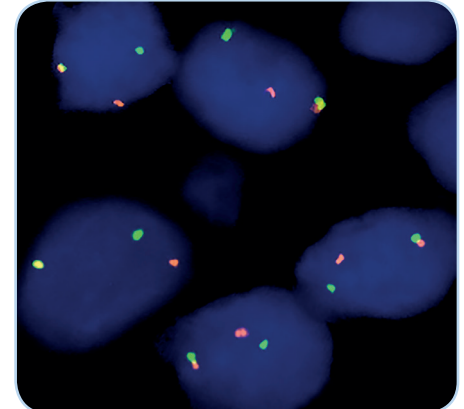
SPEC BCL6 Probe map (not to scale).

## Results

In an interphase nucleus lacking a translocation involving the 3q27.3-q28 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 3q27.3-q28 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 3q27.3-q28 locus and one 3q27.3-q28 locus affected by a translocation.



SPEC BCL6 Dual Color Break Apart Probe hybridized to normal interphase cells as indicated by two orange/green fusion signals per nucleus.



DLBCL tissue section with translocation of the BCL6 gene as indicated by one non-rearranged orange/green fusion signal, one orange, and one separate green signal.

| Prod. No.        | Product  | Label | Tests* (Volume) |
|------------------|--|-------|-----------------|
| Z-2177-50        | ZytoLight SPEC BCL6 Dual Color Break Apart Probe   | ●/●   | 5 (50 μl)       |
| Z-2177-200       | ZytoLight SPEC BCL6 Dual Color Break Apart Probe   | ●/●   | 20 (200 μl)     |
| Related Products |  |       |                 |
| Z-2028-5         | ZytoLight FISH-Tissue Implementation Kit<br>Incl. Heat Pretreatment Solution Citric, 150 ml; Pepsin Solution, 1 ml; Wash Buffer SSC, 210 ml; 25x Wash Buffer A, 50 ml; DAPI/DuraTest-Solution, 0.2 ml  |       | 5               |
| Z-2028-20        | ZytoLight FISH-Tissue Implementation Kit<br>Incl. Heat Pretreatment Solution Citric, 500 ml; Pepsin Solution, 4 ml; Wash Buffer SSC, 560 ml; 25x Wash Buffer A, 100 ml; DAPI/DuraTest-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