

ZytoMation® BCL2 Dual Color Break Apart FISH Probe



Background

The ZytoMation® BCL2 Dual Color Break Apart FISH Probe (PL260) 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 Bond FISH Kit (DS9636) on the automated Bond-MAX or Bond III system by Leica Biosystems. 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.

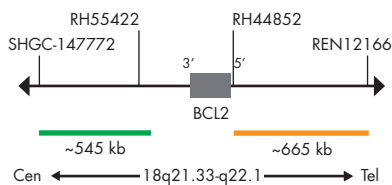
Probe Description

The ZytoMation® BCL2 Dual Color Break Apart FISH Probe is composed of:

- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~6.0 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 (~2.5 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

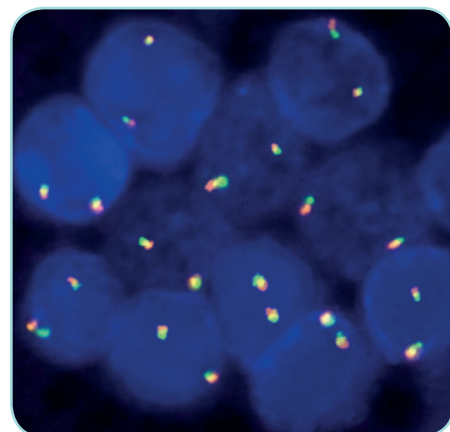


Ideogram of chromosome 18 indicating the hybridization locations.

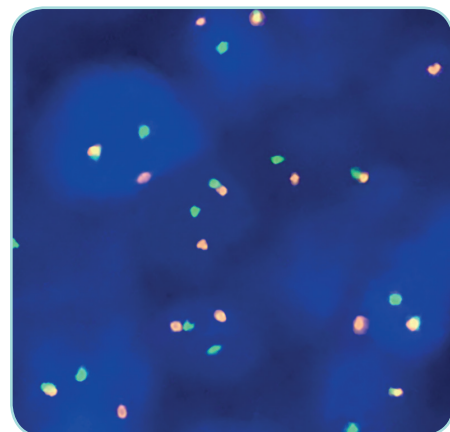


Results

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.



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



Follicular lymphoma tissue section with translocation of the BCL2 gene as indicated by one non-rearranged orange/green fusion signal, one orange and one separate green signal.

Prod. No. Product

Z-2306-5.1ML ZytoMation BCL2 Dual Color Break Apart FISH Probe CE IVD

Label



Tests* (Volume)

up to 20 (5.1 ml)

* Using 240 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