

ZytoLight® SPEC BCL2/CEN 18 Dual Color Probe

RUO

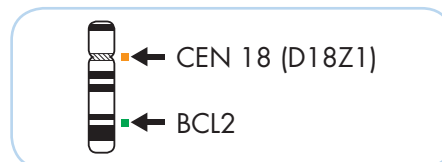
Background

The ZytoLight® SPEC BCL2/CEN 18 Dual Color Probe (PL130) is intended to be used for the qualitative detection of human BCL2 gene amplifications as well as the detection of chromosome 18 alpha satellites 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).

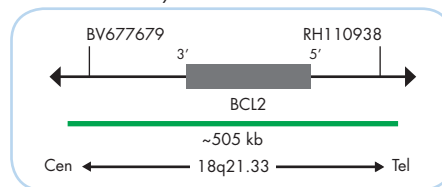
Probe Description

The ZytoLight® SPEC BCL2/CEN 18 Dual Color Probe is composed of:

- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/μl), which target sequences mapping in 18q21.33** (chr18:60,610,473-61,116,910) harboring the BCL2 gene region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~1.5 ng/μl), which target sequences mapping in 18p11.1-q11.1 specific for the alpha satellite centromeric region D18Z1 of chromosome 18.
- Formamide based hybridization buffer



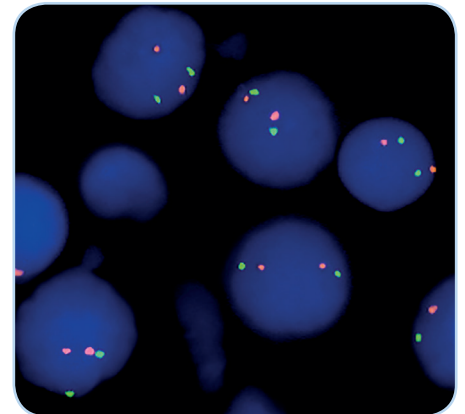
Ideogram of chromosome 18 indicating the hybridization locations.



SPEC BCL2 Probe map (not to scale).

Results

In a normal interphase nucleus, two orange and two green signals are expected. In a cell with amplification of the BCL2 gene locus, multiple copies of the green signal or green signal clusters will be observed.



SPEC BCL2/CEN 18 Dual Color Probe hybridized to normal interphase cells as indicated by two orange and two green signals in each nucleus.

| Prod. No. | Product |
|-----------|--|
| Z-2174-50 | ZytoLight SPEC BCL2/CEN 18 Dual Color Probe RUO |

| Label | Tests* (Volume) |
|-------|-----------------|
| ●/● | 5 (50 μl) |

* Using 10 μl probe solution per test. **According to Human Genome Assembly GRCh37/hg19

RUO For Research Use Only. Not for use in diagnostic procedures.