ZytoLight® SPEC BCL2L1/CEN 20 Dual Color Probe

RUO

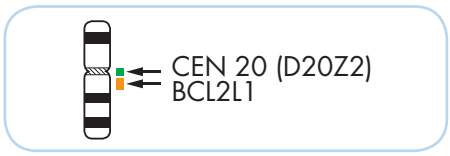
Background

The ZytoLight® SPEC BCL2L1/CEN 20 Dual Color Probe (PL127) is intended to be used for the qualitative detection of human BCL2L1 gene amplifications as well as the detection of chromosome 20 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).

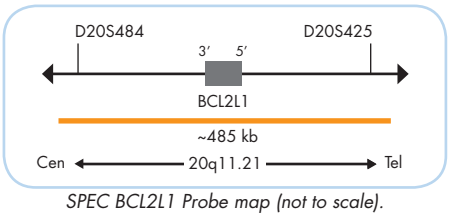
Probe Description

The ZytoLight® SPEC BCL2L1/CEN 20 Dual Color Probe is composed of:

- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 20q11.21** (chr20:30,035,357-30,522,009) harboring the BCL2L1 gene region.
- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 20p11.1-q11.1 specific for the alpha satellite centromeric region D20Z2 of chromosome 20.
- Formamide based hybridization buffer



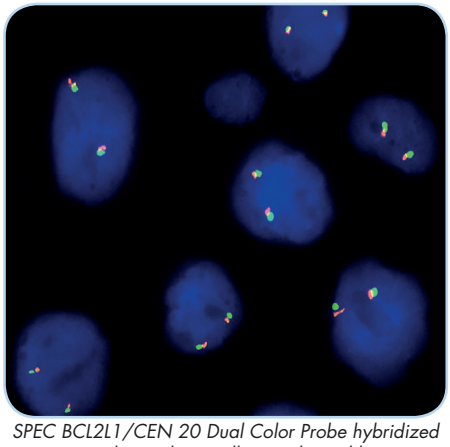
Ideogram of chromosome 20 indicating the hybridization locations.



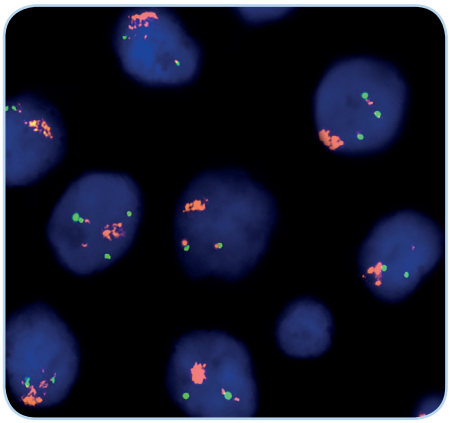
SPEC BCL2L1 Probe map (not to scale).

Results

In a normal interphase nucleus, two orange and two green signals are expected. In a cell with amplification of the BCL2L1 gene locus, multiple copies of the orange signal or orange signal clusters will be observed.



SPEC BCL2L1/CEN 20 Dual Color Probe hybridized to normal interphase cells as indicated by two orange and two green signals in each nucleus.



Example of an aberrant signal pattern: SK-LU-1 cell line with interphase cells showing amplification of the BCL2L1 gene locus as indicated by orange signal clusters in each nucleus.

Prod. No.	Product	Label	Tests* (Volume)
Z-2171-200	ZytoLight SPEC BCL2L1/CEN 20 Dual Color Probe RUO	●/●	20 (200 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.*