

ZytoLight® SPEC PLAG1 Dual Color Break Apart Probe

RUO

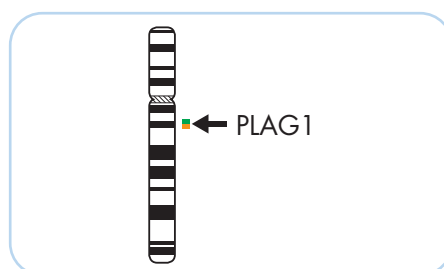
Background

The ZytoLight® SPEC PLAG1 Dual Color Break Apart Probe (PL280) is intended to be used for the qualitative detection of rearrangements involving the human PLAG1 gene at 8q12.1 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).

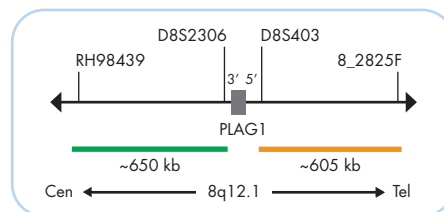
Probe Description

The ZytoLight® SPEC PLAG1 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 8q12.1** (chr8:56,397,025-57,047,991) proximal to the PLAG1 breakpoint region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/μl), which target sequences mapping in 8q12.1** (chr8:57,178,360-57,781,975) distal to the PLAG1 breakpoint region.
- Formamide based hybridization buffer



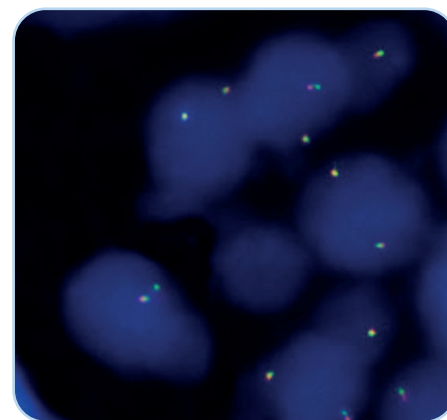
Ideogram of chromosome 8 indicating the hybridization locations.



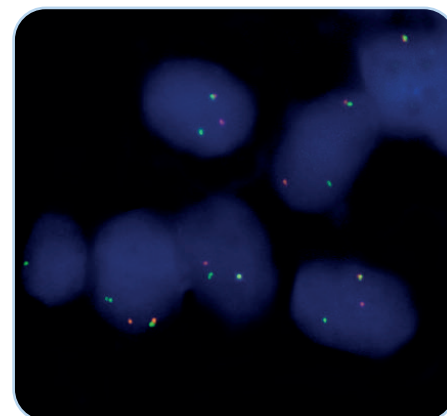
SPEC PLAG1 Probe map (not to scale).

Results

In an interphase nucleus lacking a translocation involving the 8q12.1 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 8q12.1 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 8q12.1 locus and one 8q12.1 locus affected by a translocation.



SPEC PLAG1 Dual Color Break Apart Probe hybridized to normal interphase cells as indicated by two green/orange fusion signals per nucleus.



Example of an aberrant signal pattern: Pleomorphic adenoma tissue section with translocation of the PLAG1 gene as indicated by one non-rearranged green/orange fusion signal, one orange signal and one separate green signal.

Prod. No.	Product
Z-2326-50	ZytoLight SPEC PLAG1 Dual Color Break Apart 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.