Zyto Light ® SPEC FHIT/CEN 3 Dual Color Probe

RUO

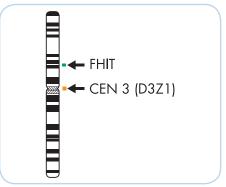
Background

The ZytoLight® SPEC FHIT/CEN 3 Dual Color Probe (PL21) is intended to be used for the qualitative detection of deletions involving the human FHIT gene as well as the detection of chromosome 3 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).

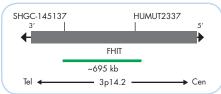
Probe Description

The ZytoLight ® SPEC FHIT/CEN 3 Dual Color Probe is composed of:

- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/µl), which target sequences mapping in 3p14.2** (chr3:60,035,946-60,732,795) harboring the FHIT gene
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~1.5 ng/µl), which target sequences mapping in 3p11.1-q11.1 specific for the alpha satellite centromeric region D3Z1 of chromosome 3.
- · Formamide based hybridization buffer



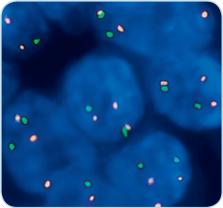
Ideogram of chromosome 3 indicating the hybridization locations.



SPEC FHIT Probe map (not to scale).

Results

In a normal interphase nucleus, two orange and two green signals are expected. In a cell with deletion of the FHIT gene locus, a reduced number of green signals will be observed. Deletions affecting only parts of introns 4 and/or 5 of the FHIT gene might result in a normal signal pattern with green signals of reduced size.



SPEC FHIT/CEN 3 Dual Color Probe hybridized to interphase cells each showing three orange and two green signals

Prod. No. Label Tests* (Volume) 20 (200 µl) Z-2062-200 Zyto Light SPEC FHIT/CEN 3 Dual Color Probe RUO **•/•**

