Zyto Light ® SPEC TERC/CEN 3 Dual Color Probe

RUO

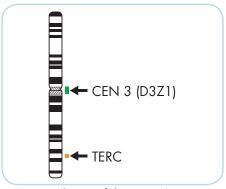
Background

The ZytoLight ® SPEC TERC/CEN 3 Dual Color Probe (PL239) is intended to be used for the qualitative detection of amplifications involving the TERC gene at 3q26.2 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 TERC/CEN 3 Dual Color Probe is composed of:

- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 3q26.2** (chr3:169,246,595-169,743,447) harboring the TERC gene region.
- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~4.5 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



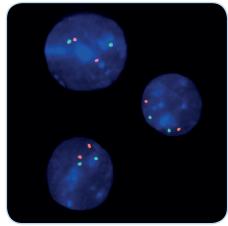
Ideogram of chromosome 3 indicating the hybridization locations.



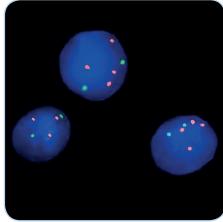
SPEC TERC Probe map (not to scale).

Results

Using the SPEC TERC/CEN 3 Dual Color Probe in a normal interphase nucleus, two orange and two green signals are expected. In a cell with gain of the TERC gene locus, multiple copies of the orange signal or orange signal clusters will be observed.



SPEC TERC/CEN 3 Dual Color Probe hybridized to normal interphase cells as indicated by two orange and two green signals per nucleus.



Example of an aberrant signal pattern: SPEC TERC/CEN 3 Dual Color Probe hybridized to CaSki cells with TERC amplification as indicated by three or four orange signals in each nucleus.

Prod. No. Label Tests* (Volume) **-/-**Z-2284-200 Zyto Light SPEC TERC/CEN 3 Dual Color Probe RUO 20 (200 µl)

