ZytoLight® SPEC TNFRSF14/1q25 Dual Color Probe

RUO

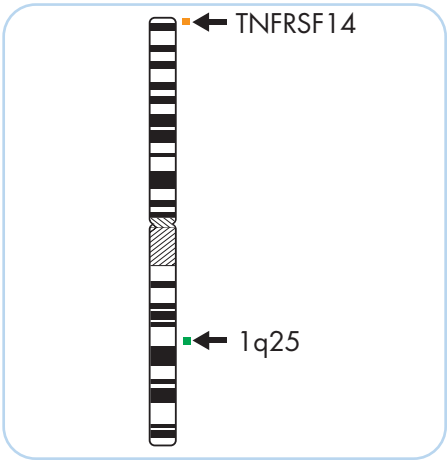
Background

The ZytoLight® SPEC TNFRSF14/1q25 Dual Color Probe (PL277) is intended to be used for the qualitative detection of human TNFRSF14 gene deletions and 1q25.3 specific sequences 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).

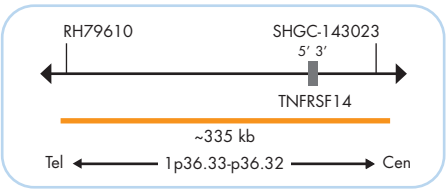
Probe Description

The ZytoLight® SPEC TNFRSF14/1q25 Dual Color Probe is composed of:

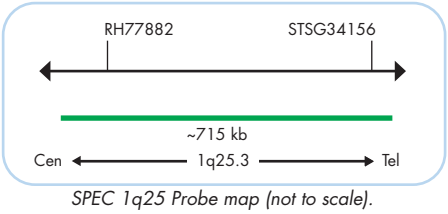
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 1p36.33-p36.32** (chr1:2,233,802-2,569,490) harboring the TNFRSF14 gene region.
- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/µl), which target sequences mapping in 1q25.3** (chr1:184,271,714-184,986,522).
- Formamide based hybridization buffer



Ideogram of chromosome 1 indicating the hybridization locations.



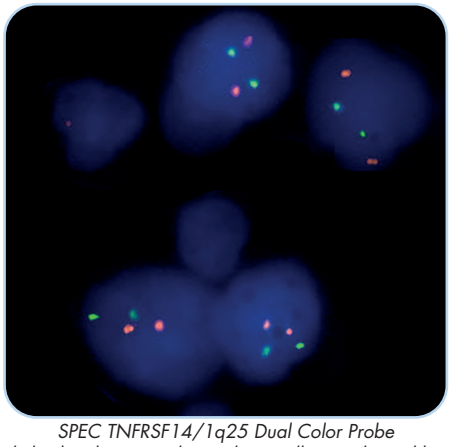
SPEC TNFRSF14 Probe map (not to scale).



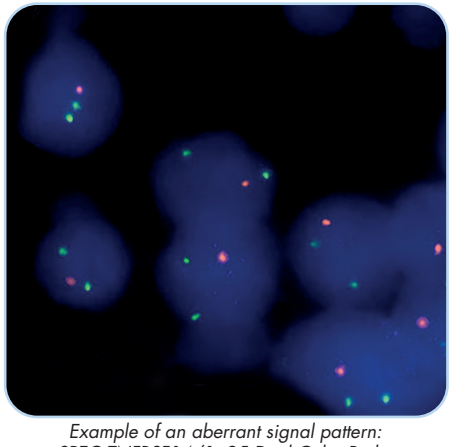
SPEC 1q25 Probe map (not to scale).

Results

In a normal interphase nucleus, two green and two orange signals are expected. In a cell with deletions affecting the TNFRSF14 gene region, one or no copy of the orange signal will be observed.



SPEC TNFRSF14/1q25 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: SPEC TNFRSF14/1q25 Dual Color Probe hybridized to follicular lymphoma tissue section with deletion of the TNFRSF14 gene as indicated by one orange signal and two green signals in each nucleus.

Prod. No.	Product	Label	Tests* (Volume)
Z-2323-50	ZytoLight SPEC TNFRSF14/1q25 Dual Color Probe RUO	●/●	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.*