

ZytoLight® SPEC CIC Dual Color Break Apart Probe



Background

The ZytoLight® SPEC CIC Dual Color Break Apart Probe (PL240) is intended to be used for the qualitative detection of translocations involving the human CIC gene at 19q13.2 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).

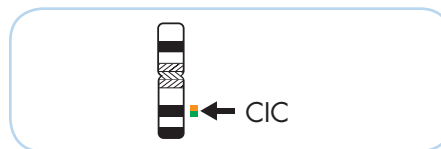
The product is intended for professional use only. All tests using the product should be performed in a certified, licensed anatomic pathology laboratory under the supervision of a pathologist/human geneticist by qualified personnel.

The probe is intended to be used as an aid to the differential diagnosis of various cancers and therapeutic measures should not be initiated based on the test result alone.

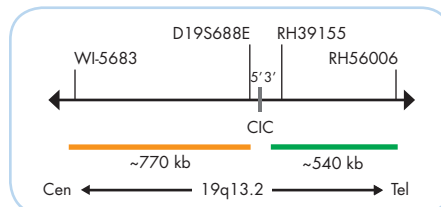
Probe Description

The ZytoLight® SPEC CIC Dual Color Break Apart Probe is composed of:

- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/μl), which target sequences mapping in 19q13.2** (chr19:42,835,047-43,374,575) distal to the CIC break-point region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/μl), which target sequences mapping in 19q13.2** (chr19:41,980,301-42,751,339) proximal to the CIC break-point region.
- Formamide based hybridization buffer



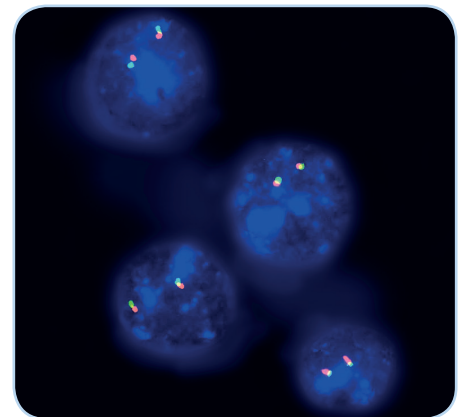
Ideogram of chromosome 19 indicating the hybridization locations.



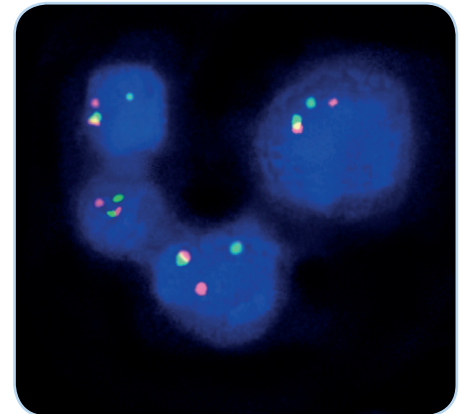
SPEC CIC Probe map (not to scale).

Results

In an interphase nucleus lacking a translocation involving the 19q13.2 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 19q13.2 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 19q13.2 locus and one 19q13.2 locus affected by a translocation.



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



Example of an aberrant signal pattern: Undifferentiated round cell sarcoma 'Ewing-like' tissue section with translocation of the 19q13.2 locus as indicated by one non-rearranged orange/green fusion signal, one orange and one separate green signal.

Prod. No.	Product	Label	Tests* (Volume)
Z-2285-50	ZytoLight SPEC CIC Dual Color Break Apart Probe CE IVD	●/●	5 (50 μl)
Related Products			
Z-2028-5	ZytoLight FISH-Tissue Implementation Kit CE IVD		5
Incl. Heat Pretreatment Solution Citric, 150 ml; Pepsin Solution, 1 ml; Wash Buffer SSC, 210 ml; 25x Wash Buffer A, 50 ml; DAPI/DuraTect-Solution, 0.2 ml			

* Using 10 μl probe solution per test. IVD labeled products are only available in certain countries. All other countries research use only! Please contact your local dealer for more information.

**According to Human Genome Assembly GRCh37/hg19