## ZytoLight® SPEC FGFR2 Dual Color Break Apart Probe

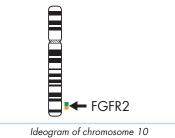
## Background

The ZytoLight ® SPEC FGFR2 Dual Color Break Apart Probe (PL125) is intended to be used for the qualitative detection of translocations involving the human FGFR2 gene at 10q26.13 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.

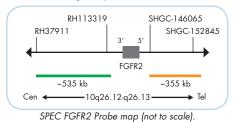
## Probe Description

The Zyto*Light* <sup>®</sup> SPEC FGFR2 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 10q26.12-q26.13\*\* (chr10:122,632,462-123,166,030) proximal to the FGFR2 breakpoint region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 10q26.13\*\* (chr10:123,436,230-123,791,279) distal to the FGFR2 breakpoint region.
- · Formamide based hybridization buffer



indicating the hybridization locations.

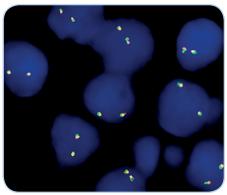


## Results

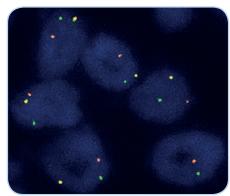
In an interphase nucleus of a normal cell lacking a translocation involving the 10q26.13 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 10q26.13 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 10q26.13 locus and one 10q26.13 locus affected by a translocation.

CE

IVD



SPEC FGFR2 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: Cholangiocellular adenocarcinoma tissue section with translocation of the FGFR2 gene as indicated by one non-rearranged orange/green fusion signal, one orange, and one separate green signal.

Kindly provided by Prof. Dr. Büttner, Cologne, Germany.

Prod. No.	Product	Label	Tests* (Volume)
Z-2169-50	Zyto <i>Light</i> SPEC FGFR2 Dual Color Break Apart Probe C € 呕	•/•	5 (50 µl)
Z-2169-200	Zyto <i>Light</i> SPEC FGFR2 Dual Color Break Apart Probe C € 👓	•/•	20 (200 µl)
<b>Related Prod</b>	ucts		
Z-2028-5	Zyto Light FISH-Tissue Implementation Kit C E [VD] Incl. Heat Pretreatment Solution (Tirtic, 150 ml; Pepsin Solution, 1 ml; Wash Buffer SSC, 210 ml; 25x Wash Buffer A, 50 ml; DAPI/DuraTect-Solution, 0.2 ml		5
Z-2028-20	Zyto Light FISH-Tissue Implementation Kit C E IVD Incl. Heat Pretreatment Solution Citric, 500 ml; Pepsin Solution, 4 ml; Wash Buffer SSC, 560 ml; 25x Wash Buffer A, 100 ml; DAPI/DuraTect-Solution, 0.8 ml		20

\* Using 10 µl probe solution per test. IND 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



ZytoVision GmbH · Fischkai 1 · 27572 Bremerhaven · Germany · www.zytovision.com

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