ZytoLight® SPEC ABL2 Dual Color Break Apart Probe

Background

The ZytoLight ® SPEC ABL2 Dual Color Break Apart Probe (PL158) is intended to be used for the qualitative detection of translocations involving the human ABL2 gene at 1q25.2 in cytologic specimens by fluorescence in situ hybridization (FISH). The probe is intended to be used in combination with the ZytoLight ® FISH-Cytology Implementation Kit (Prod. No. Z-2099-20). 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* [®] SPEC ABL2 Dual Color Break Apart Probe is composed of:

- ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10.0 ng/µl), which target sequences mapping in 1q25.2** (chr1:179,141,608-179,659,091) distal to the ABL2 breakpoint region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 1q25.2** (chr1:178,496,704-179,015,312) proximal to the ABL2 breakpoint region.
- · Formamide based hybridization buffer

Ideogram of chromosome 1 indicating the hybridization locations.



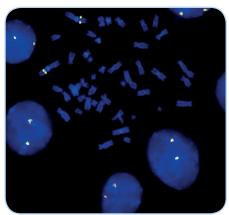
SPEC ABL2 Probe map (not to scale).

Results

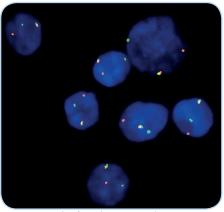
In an interphase nucleus of a normal cell lacking a translocation involving the 1q25.2 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 1q25.2 loci. A signal pattern consisting of one orange/ green fusion signal, one orange signal, and a separate green signal indicates one normal 1q25.2 locus and one 1q25.2 locus affected by a translocation.

CE

IVD



SPEC ABL2 Dual Color Break Apart Probe hybridized to normal interphase cells as indicated by two orange/green fusion signals per nucleus and to metaphase chromosomes of a normal cell.



Example of an aberrant signal pattern: Blood smear with translocation of the ABL2 gene as indicated by one non-rearranged orange/green fusion signal, one orange and one separate green signal.

Molecular diagnostics simplified

FE101-1-23

Prod. No.	Product	Lapel	Tests* (Volume)
Z-2200-50	Zyto <i>Light</i> SPEC ABL2 Dual Color Break Apart Probe C € 👓	•/•	5 (50 µl)
Related Products			
Z-2099-20	Zyto<i>Light</i> FISH-Cytology Implementation Kit C E IVD Incl. Cytology Pepsin Solution, 4 ml; 20x Wash Buffer TBS, 50 ml; 10x MgCl ₂ , 50 ml; 10x PBS, 50 ml; Cytology Stringency Wash Buffer SSC, 500 ml; Cytology Wash Buffer SSC, 500 ml; DAPI/DuraTect-Solution, 0.8 ml		20
* Using 10 µl probe solution per test. 🔟 labeled products are only available in certain countries. All other countries research use only! Please contact your local dealer for more information.			

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