ZytoLight® SPEC SYT Dual Color Break Apart Probe

Background
The ZytoLight® SPEC SYT Dual Color Break Apart Probe is designed to detect translocations involving the chromosomal region 18q11 harboring the SYT (synovial sarcoma translocation) gene (a.k.a. SS18). Translocations involving the region 18q11 are found in over 90% of synovial sarcoma. Among soft tissue sarcomas, synovial sarcoma is one of the most common and classically occurs in the extremities of young adults with greater prevalence in males even though, the occurrence of synovial sarcoma has also been described in a wide variety of anatomical locations and in all ages. The most frequent translocation involving the SYT gene region is t(X;18) (p11.2;q11.2) juxtaposing the SYT gene in 18q11 either next to the SSX1 (synovial sarcoma, translocated to X chromosome) or the SSX2 gene, or very rarely to the SSX4 locus located in Xp11. Complex translocations involving other chromosomes are observed in less than 10% of synovial sarcomas. In combination with histopathological diagnosis, detection of SYT rearrangements via FISH analysis is a valuable tool to confirm the diagnosis of synovial sarcoma.

Probe Description
The ZytoLight® SPEC SYT Dual Color Break Apart Probe is a mixture of two clone contigs hybridizing to the 18q11 band. The orange fluorochrome direct labeled probe hybridizes distal to the SYT gene, the green fluorochrome direct labeled probe hybridizes proximal to that gene.

Results
In an interphase nucleus lacking a translocation involving the 18q11 band two orange/green fusion signals are expected representing two normal (non-rearranged) 18q11 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 18q11 locus and one 18q11 locus affected by an 18q11 translocation.

References

Prod. No. Product Label Tests*
Z-2097-50 ZytoLight SPEC SYT Dual Color Break Apart ∆ 5

Related Products
Z-2028-5 ZytoLight FISH-Tissue Implementation Kit ∆ 5

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Z-2028-5 ZytoLight FISH-Tissue Implementation Kit ∆ 5

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