Zyto Light ® SPEC BRAF/CEN 7 Dual Color Probe



Background

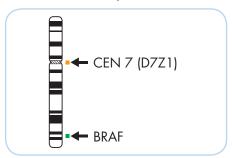
The ZytoLight ® SPEC BRAF/CEN 7 Dual Color Probe (PL149) is intended to be used for the qualitative detection of amplifications involving the human BRAF gene as well as the detection of chromosome 7 alpha satellites in formalin-fixed, paraffin-embedded specimens by fluorescence in situ hybridization (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.

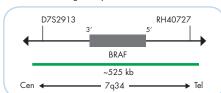
Probe Description

The ZytoLight ® SPEC BRAF/CEN 7 Dual Color Probe is composed of:

- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/µl), which target sequences mapping in 7q34** (chr7:140,266,210-140,792,511) harboring the BRAF gene region.
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~1.5 ng/µl), which target sequences mapping in 7p11.1-q11.1 specific for the alpha satellite centromeric region D7Z1 of chromosome 7.
- · Formamide based hybridization buffer



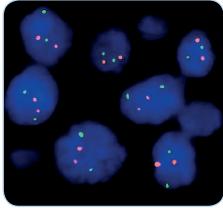
Ideogram of chromosome 7 indicating the hybridization locations.



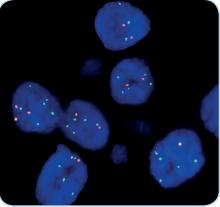
SPEC BRAF Probe map (not to scale).

Results

In a normal interphase nucleus, two orange and two green signals are expected. In a cell with amplification of the BRAF gene locus or polysomy of chromosome 7, multiple copies of the green signal or large green signal clusters will be observed.



Normal interphase cells, BRAF (green), CEN 7 (orange).



Example of an aberrant signal pattern: NSCLC tissue section with amplification of the BRAF gene (green).

Prod. No.	Product	Label	Tests* (Volume)
Z-2191-200	Zyto <i>Light</i> SPEC BRAF/CEN 7 Dual Color Probe C € IVD	•/•	20 (200 µl)
Related Products			
Z-2028-20	Zyto <i>Light</i> FISH-Tissue Implementation Kit C € IVD		20
	Incl. Heat Pretreatment Solution Citric. 500 ml· Pensin Solution. 4 ml· Wash Ruffer SSC. 560 ml· 25x Wash Ruffer & 100 ml· DAPI/DuraTert-Solution. 0.8 ml		

^{*} 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.

^{**}According to Human Genome Assembly GRCh37/hg19