Zyto Light ® SPEC NUTM1 Dual Color Break Apart Probe



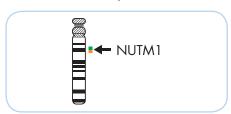
Background

The ZytoLight ® SPEC NUTM1 Dual Color Break Apart Probe (PL166) is intended to be used for the qualitative detection of translocations involving the human NUTM1 gene at 15q14 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.

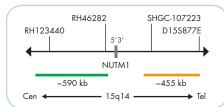
Probe Description

The ZytoLight ® SPEC NUTM1 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 15q14** (chr15:33,999,791-34,587,649) proximal to the NUTM1 breakpoint region.
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 15q14** (chr15:34,873,659-35,326,986) distal to the NUTM1 breakpoint region.
- · Formamide based hybridization buffer.



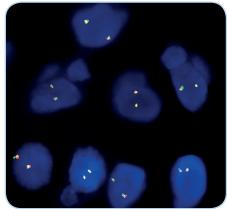
Ideogram of chromosome 15 indicating the hybridization locations.



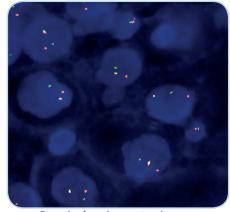
SPEC NUTM1 Probe map (not to scale).

Results

In an interphase nucleus lacking a translocation involving the 15q14 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 15q14 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 15q14 locus and one 15q14 locus affected by a translocation.



SPEC NUTM1 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: NMC tissue section with translocation of the NUTM1 gene as indicated by one non-rearranged orange/green fusion signal, one orange and one separate green signal.

Prod. No.	Product	Label	Tests* (Volume)
Z-2208-200	Zyto <i>Light</i> SPEC NUTM1 Dual Color Break Apart 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; Pepsin Solution, 4 ml; Wash Buffer SSC, 560 ml; 25x Wash Buffer A, 100 ml; DAPI/DuraTect-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

Molecular diagnostics simplified FE120-1-23