## Zyto Light ® SPEC MDM2/CEN 12 Dual Color Probe



## **Background**

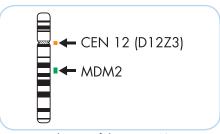
The ZytoLight® SPEC MDM2/CEN 12 Dual Color Probe (PL18) is intended to be used for the qualitative detection of amplifications involving the human MDM2 gene as well as the detection of chromosome 12 alpha satellites in formalin-fixed, paraffin-embedded specimens, such as atypical lipomatous tumor/well differentiated liposarcoma (ALT/WDLPS) and dedifferentiated liposarcoma (DDLPS), 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 ALT/ WDLPS and DDLPS and therapeutic measures should not be initiated based on the test result alone.

## **Probe Description**

The ZytoLight ® SPEC MDM2/CEN 12 Dual Color Probe is composed of:

- · ZyGreen (excitation 503 nm/emission 528 nm) labeled polynucleotides (~10 ng/µl), which target sequences mapping in 12q15\*\* (chr12:69,071,802-69,565,421) harboring the MDM2 gene
- · ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~1.5 ng/µl), which target sequences mapping in 12p11.1-q11 specific for the alpha satellite centromeric region D12Z3 of chromosome 12.
- · Formamide based hybridization buffer



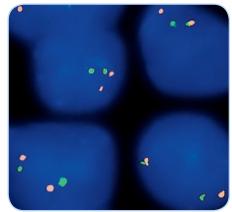
Ideogram of chromosome 12 indicating the hybridization locations.



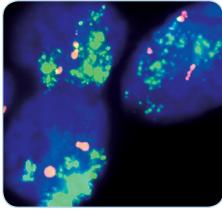
SPEC MDM2 Probe map (not to scale).

## Results

In a normal interphase nucleus, two orange and two green signals are expected. In a cell with amplification of the MDM2 gene locus, multiple copies of the green signal or green signal clusters will be observed.



Normal interphase cells, MDM2 (green), CEN 12 (orange).



Liposarcoma tissue section with amplification of the MDM2 gene (green), CEN 12 (orange).

Prod. No.	Product	Label	Tests* (Volume)
Z-2013-50	Zyto <i>Light</i> SPEC MDM2/CEN 12 Dual Color Probe C € 0124 IVD	•/•	5 (50 µl)
Z-2013-200	Zyto <i>Light</i> SPEC MDM2/CEN 12 Dual Color Probe C € 0124 IVD	•/•	20 (200 µl)
Related Products			
Z-2028-5	Zyto Light FISH-Tissue Implementation Kit C E IVD Incl. Heat Pretreatment Solution Citric, 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 € 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

<sup>\*</sup> 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

