**ZytoLight® SPEC USP6 Dual Color Break Apart Probe**

**Background**

The ZytoLight® SPEC USP6 Dual Color Break Apart Probe (PL107) is intended to be used for the qualitative detection of translocations involving the human USP6 gene at 17p13.2 in formalin-fixed, paraffin-embedded specimens, such as aneurysmal bone cyst (ABC) or nodular fasciitis (NF), 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 ABC or NF and therapeutic measures should not be initiated based on the test result alone.

**Probe Description**

The ZytoLight® SPEC USP6 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 17p13.2** (chr17:4,489,889-5,017,582) distal to the USP6 breakpoint region.
- ZyOrange (excitation 547 nm/emission 572 nm) labeled polynucleotides (~4.5 ng/µl), which target sequences mapping in 17p13.2** (chr17:5,087,046-5,361,104) proximal to the USP6 breakpoint region.
- Formamide based hybridization buffer

**Results**

In an interphase nucleus lacking a translocation involving the 17p13.2 band, two orange/green fusion signals are expected representing two normal (non-rearranged) 17p13.2 loci. A signal pattern consisting of one orange/green fusion signal, one orange signal, and a separate green signal indicates one normal 17p13.2 locus and one 17p13.2 locus affected by a translocation.

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**Related Products**

- **Z-2151-50**  
  ZytoLight SPEC USP6 Dual Color Break Apart Probe  
  **Label**  
  **Tests** (Volume)
  
- **Z-2151-200**  
  ZytoLight SPEC USP6 Dual Color Break Apart Probe  
  **Label**  
  **Tests** (Volume)

**Related Products**

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

- **Z-2028-20**  
  ZytoLight FISH-Tissue Implementation Kit  
  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

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*Using 10 µl probe solution per test. Incl. labeled products are only available in certain countries. All other countries research use only! Please contact your local dealer for more information.**