

## PLAG1 Break Apart FISH Probe Kit

### Introduction

The PLAG1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human PLAG1 gene mapping to chromosome band 8q12.1. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other PLAG1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the PLAG1 gene – also known as PSA, SGPA or ZNF912 - have been observed in lipoblastomas and salivary gland and other epitheloid malignancies.

### Intended Use

To detect rearrangements in the human *PLAG1* gene located on chromosome band 8q12.1.

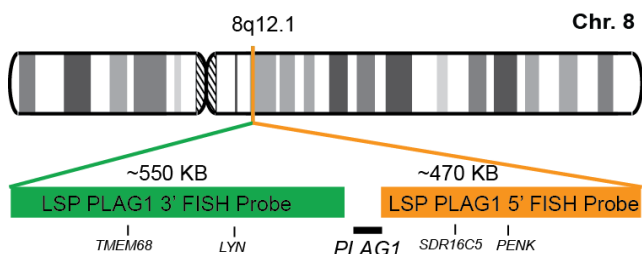
### Cont.

### Color

LSP PLAG1 5' FISH Probe  
LSP PLAG1 3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

LSP PLAG1 5' FISH Probe covers the 5' (start) portion of the *PLAG1* gene and some adjacent genomic sequences. LSP PLAG1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *PLAG1* gene in which variable breakpoints have been observed.

### Cat. No.

### Volume

CT-PAC243-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2F\*

#### Abnormal Patterns

Other Patterns

\*Overlapping orange and green signals can appear as yellow.

- 1) Friedrich RE, et al. *Anticancer Res.* 32(5):1977-81 (2012).
- 2) Jin C, et al. *Genes Chromosomes Cancer* 30(2):161-7 (2001).
- 3) Antonescu CR, et al. *Genes Chromosomes Cancer* 52(7):675-82 (2013)
- 4) Evrard SM, et al. *Cytopathology* 28(4):312-320 (2017).
- 5) Andreassen S, et al. *Acta Ophthalmol.* doi: 10.1111/aos.13667. (2018).



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\* CE IVD only available in certain countries. All other countries are either ASR or RUO. Please contact your local dealer or our headquarters for more information.

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