

## RAF1 Break Apart FISH Probe Kit

### Introduction

The RAF1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *RAF1* gene located on chromosome band 3p25.2. 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 *RAF1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *RAF1* gene – also known as *NS5*, *CRAF*, *Raf-1*, *c-Raf* or *CMD1NN* – have been observed in Noonan syndrome, LEOPARD syndrome, pancreatic acinar cell carcinomas, lung cancer and other malignancies.

### Intended Use

To detect rearrangements in the human *RAF1* gene located on chromosome band 3p25.2.

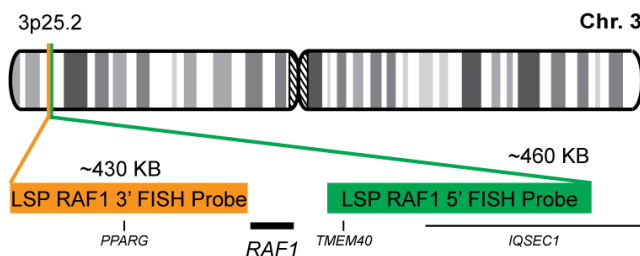
### Cont.

LSP RAF1 5' FISH Probe  
LSP RAF1 3' FISH Probe

### Color

CytoGreen  
CytoOrange

### Probe Design



Not to Scale

LSP RAF1 5' FISH Probe covers some genomic sequences adjacent to the 5' end of the *RAF1* gene. LSP RAF1 3' FISH Probe covers some sequence downstream of the 3' end of the gene. The two probes are flanking sequences across the *RAF1* gene in which variable breakpoints have been observed.

### Cat. No.

CT-PAC493-10-GO

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2F\*

#### Abnormal Patterns

Other Patterns

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

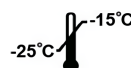
1. Prall OWJ, et al. Mod Pathol. 33(9):1811-1821 (2020).
2. Williams EA, et al. Mod Pathol. 33(8):1466-1474 (2020).
3. Noeparast A, et al. Oncogene. 38(31):5933-5941 (2019).
4. Pandit B, et al. Nat Genet. 39(8):1007-12 (2007).
5. Jones DTW, et al. Oncogene. 28(20):2119-23 (2009).

\* 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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