

## JAK2 Break Apart FISH Probe Kit

### Introduction

The JAK2 Break Apart FISH Probe Kit is designed to detect rearrangements in the human JAK2 gene located on chromosome band 9p24.1. 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 JAK2 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the JAK2 gene – also known as THCYT3 or JTK10 – have been observed in acute myeloid and lymphoid leukemias and other malignancies.

### Intended Use

To detect rearrangements in the human JAK2 gene located on chromosome band 9p24.1.

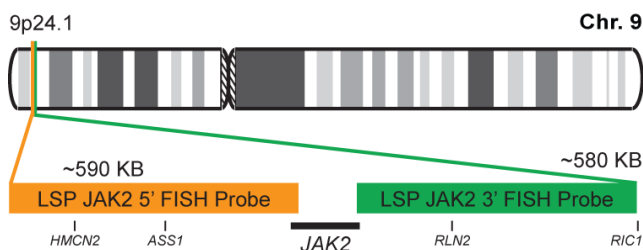
### Cont.

### Color

LSP JAK2 5' FISH Probe  
LSP JAK2 3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

LSP JAK2 5' FISH Probe covers the 5' (start) portion of the JAK2 gene and some adjacent genomic sequences. LSP JAK2 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the JAK2 gene in which variable breakpoints have been observed.

### Cat. No.

### Volume

CT-PAC174-10-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) Lacronique V, et al. *Science*. 278(5341):1309-12 (1997).  
2) Schwaller J, et al. *EMBO J*. 17(18):5321-33 (1998).  
3) Ho JM, et al. *Blood*. 100(4):1438-48 (2002).  
4) Mahon FX. *Oncogene*. 24(48):7125-6 (2005).  
5) Steensma DP, et al. *Blood*. 106(4):1207-9 (2005).

\* 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.