

## KMT2A Break Apart FISH Probe Kit

### Introduction

The KMT2A Break Apart FISH Probe Kit is designed to detect rearrangements in the human KMT2A gene located on chromosome band 11q23.3. 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 KMT2A aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the KMT2A gene – also known as HRX, MLL, MLL1, TRX1, ALL-1, CXXC7, HTRX1, MLL1A, WDSTS, MLL/GAS7 or TET1-MLL – have been observed in a large number of acute leukemias and other malignancies. Nearly 80 fusion partner genes have been identified to date.

### Intended Use

To detect rearrangements in the human *KMT2A* gene located on chromosome band 11q23.3.

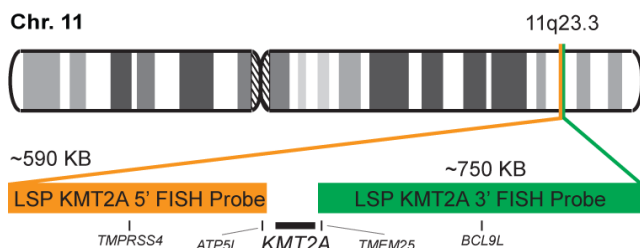
### Cont.

### Color

LSP KMT2A 5' FISH Probe  
LSP KMT2A 3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

LSP KMT2A 5' FISH Probe covers some genomic sequences adjacent to the 5' (start) portion of the *KMT2A* gene. LSP KMT2A 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *KMT2A* gene in which variable breakpoints have been observed.

### Cat. No.

### Volume

CT-PAC326-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2F\*

#### Abnormal Patterns

Other Patterns

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

- Schichman SA, et al. *JAMA*. 273(7):571-6 (1995).
- Young BD & Saha V. *Cancer Surv*. 28:225-45 (1996).
- Huntsman DG, et al. *Oncogene*. 18(56):7975-84 (1999).
- Bernard OA & Berger R. *Genes Chromosomes Cancer*. 13(2):75-85 (1995).
- Dimartino JF & Cleary ML. *Br J Haematol*. 106(3):614-26 (1999).

\* 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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