

KMT2A Break Apart FISH Probe Kit

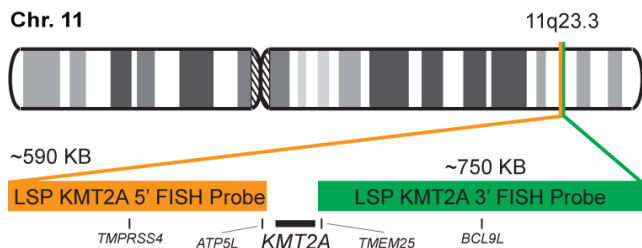
Introduction

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 <i>KMT2A</i> gene located on chromosome band 11q23.3.

Cont.	Color
LSP KMT2A 5' FISH Probe LSP KMT2A 3' FISH Probe	CytoOrange CytoGreen

Probe Design



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.

Not to Scale

Cat. No.	Volume
CT-PAC326-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u> 2OG*	<u>Abnormal Pattern</u> 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).



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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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