

KMT2A-MLLT4 Dual Fusion/Translocation FISH Probe Kit

Introduction

The KMT2A-MLLT4 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human KMT2A and MLLT4 genes located on chromosome bands 11q23.3 and 6q27, respectively. Rearrangements between the two genes, the KMT2A gene – also known as HRX, MLL, MLL1, TRX1, ALL-1, CXXC7, HTRX1, MLL1A, WDST5, MLL/GAS7 or TET1-MLL – and the MLLT4 gene – also called AF6 or MLL-AF6, have been observed in acute myeloid leukemia (AML) and other malignancies.

Intended Use

To detect rearrangements involving the human *KMT2A* and *MLLT4* genes located on chromosome bands 11q23.3 and 6q27, respectively.

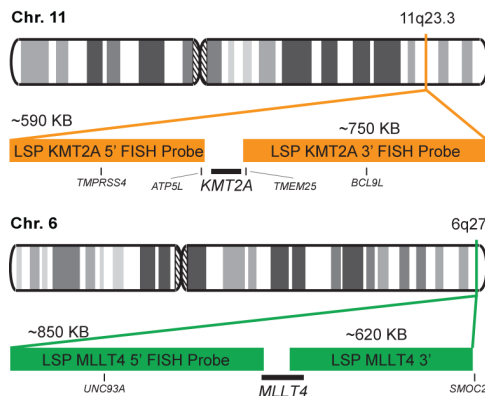
Cont.

Color

LSP KMT2A 5'-3' FISH Probe
LSP MLLT4 5'-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. LSP MLLT4 5' FISH Probe covers the 5' (start) portion of the *MLLT4* gene and some adjacent genomic sequences. LSP MLLT4 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The probe set is optimized to reveal translocations between the two genes.

Cat. No.

Volume

CT-PAC184-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Prasad R, et al. *Cancer Res.* 53(23):5624-8 (1993).
2) Welborn JL, et al. *Cancer Genet Cytogenet.* 65(2):125-9 (1993).
3) Blum W, et al. *Cancer.* 101(6):1420-7 (2004).
4) Abdou SM, et al. *Leuk Lymphoma.* 43(1):89-95 (2002).
5) Barber KE, et al. *Genes Chromosomes Cancer.* 41(3):266-71 (2004).

* 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.