

MLLT1 Break Apart FISH Probe Kit

Introduction

The MLLT1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human MLLT1 gene mapping to chromosome band 19p13.3. 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 MLLT1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the MLLT1 gene – also known as ENL, LTG19 or YEATS1 - have been observed in acute leukemias and other tumor types.

Intended Use

To detect rearrangements in the human *MLLT1* gene mapping to chromosome band 19p13.3.

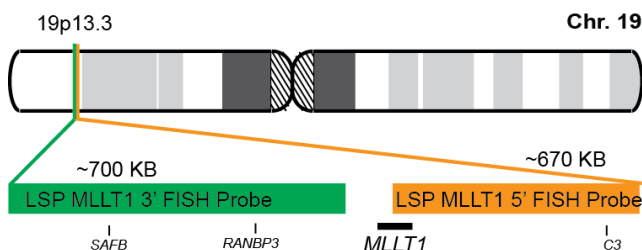
Cont.

Color

LSP MLLT1 5' FISH Probe
LSP MLLT1 3' FISH Probe

CytoOrange
CytoGreen

Probe Design



LSP MLLT1 5' FISH Probe covers the 5' (start) portion of the *MLLT1* gene and some adjacent genomic sequences. LSP MLLT1 3' FISH Probe covers the sequences downstream of the 3' (end) part of the gene. The two probes are flanking a region in the *MLLT1* gene in which variable breakpoints have been observed.

Cat. No.

Volume

CT-PAC215-10-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) Thirman MJ, et al. *Proc Natl Acad Sci U S A*. 91(25):12110-4 (1994).
2) Blanco JG, et al. *Proc Natl Acad Sci U S A*. 98(18):10338-43 (2001).
3) Rubnitz JE, et al. *Blood*. 84(6):1747-52 (1994).
4) Perlman EJ, et al. *Nat Commun*. 6:10013 (2015).
5) Okeyo-Owuor T, et al. *Blood Adv*. 3(15):2388-2399 (2019).

* 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.