

MKL1 Break Apart FISH Probe Kit

Introduction

The MKL1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human MKL1 gene mapping to chromosome band 22q13.1. 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 MKL1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the MKL1 gene – also known as KIAA1438, MAL, MKL, BSAC or MRTF-A - have been observed in acute megakaryocytic leukemia and other hematological and solid tumor types.

Intended Use

To detect rearrangements in the human *MKL1* gene mapping to chromosome band 22q13.1.

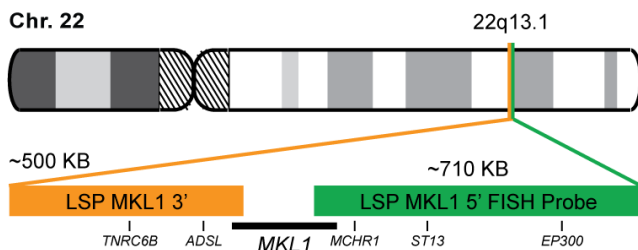
Cont.

LSP MKL1 5' FISH Probe
LSP MKL1 3' FISH Probe

Color

CytoGreen
CytoOrange

Probe Design



LSP MKL1 5' FISH Probe covers the 5' (start) portion of the *MKL1* gene and some adjacent genomic sequences. LSP MKL1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *MKL1* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.

CT-PAC338-10-GO

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Mercher T, et al. *Proc. Natl. Acad. Sci. USA* 98(10):5776-9 (2001).
 2) Torres, L, et al. *Pediatr. Blood Cancer* 56(5):846-9 (2011).
 3) Nakano, Y, et al. *Glob. Pediatr. Health* Jan 24;4:2333794X16689011 (2017).
 4) Ailyón, V, et al. *Stem Cell Res.* 19:1-5 (2017).
 5) Margolskee, E, et al., *Am. J. Case Rep.* 18:422-426 (2017).

* 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.

