

PBX1 Break Apart FISH Probe Kit

Introduction

The PBX1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human PBX1 gene located on chromosome band 1q23.3. 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 PBX1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the PBX1 gene – also known as PRL – have been observed in B-cell acute lymphoblastic leukemias (B-ALL) and other tumor types.

Intended Use

To detect rearrangements in the human *PBX1* gene located on chromosome band 1q23.3.

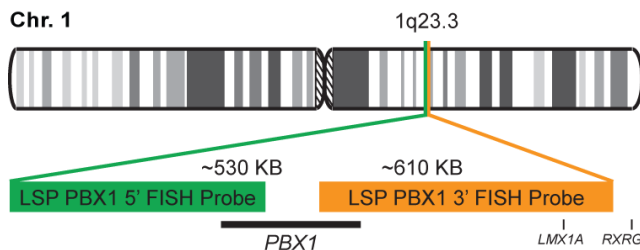
Cont.

Color

LSP PBX1 5' FISH Probe
LSP PBX1 3' FISH Probe

CytoGreen
CytoOrange

Probe Design



Not to Scale

LSP PBX1 5' FISH Probe covers the 5' (start) portion of the *PBX1* gene and some adjacent genomic sequences. LSP PBX1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *PBX1* gene in which variable breakpoints have been observed.

Cat. No.

Volume

CT-PAC205-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Mathew S, et al. *Leukemia*. 15(3):468-72 (2001).
2) La Starza R, et al. *Leukemia*. 19(9):1696-9 (2005).
3) Yeung J, et al. *Haematologica*. 91(3):422-4 (2006).
4) Barber KE, et al. *Genes Chromosomes Cancer*. 46(5):478-86 (2007).
5) Slattery C, et al. *Int J Biochem Cell Biol*. 40(8):1431-6 (2008).

* 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.