

PBX1 Break Apart FISH Probe Kit

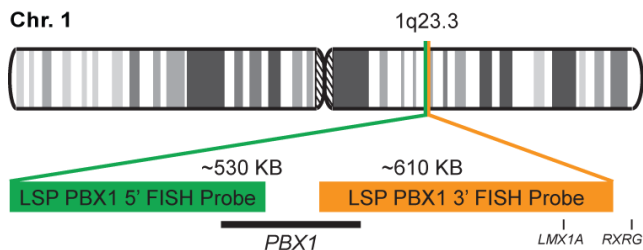
Introduction

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 <i>PBX1</i> gene located on chromosome band 1q23.3. |

| Cont. | Color |
|--|-------------------------|
| LSP PBX1 5' FISH Probe LSP PBX1 3' FISH Probe | CytoGreen CytoOrange |

Probe Design



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.

Not to Scale

| Cat. No. | Volume |
|-----------------|-------------------|
| CT-PAC205-10-GO | 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. | |

- 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).



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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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