

## TCF3-PBX1 Fusion/Translocation FISH Probe Kit

### Introduction

The TCF3-PBX1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *TCF3* and *PBX1* genes located on chromosome bands 19p13.3 and 1q23.3, respectively. Rearrangements between the two genes, the *TCF3* gene – also known as *E2A*, *E47*, *ITF1*, *VDIR*, *TCF-3* or *bHLHb21*, have been observed in B-cell acute lymphoblastic leukemias (B-ALL) and other tumor types.

### Intended Use

To detect rearrangements involving the human *TCF3* and *PBX1* genes located on chromosome bands 19p13.3 and 1q23.3, respectively.

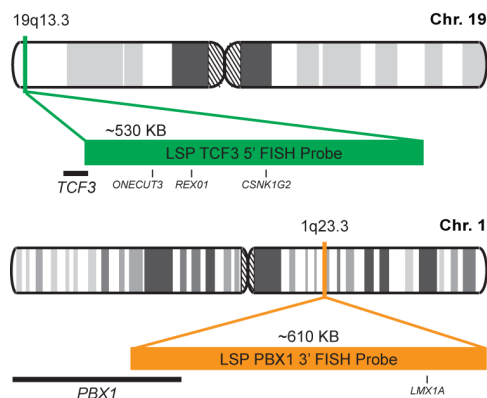
### Cont.

LSP TCF3 5' FISH Probe  
LSP PBX1 3' FISH Probe

### Color

CytoGreen  
CytoOrange

### Probe Design



LSP TCF3 5' FISH Probe covers the 5' (start) portion of the *TCF3* gene and some adjacent genomic sequences. LSP PBX1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the *PBX1* gene. The probe set is optimized to reveal translocations between the two gene regions.

### Cat. No.

CT-PAC308-10-GO

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Pattern

2O + 2G\*

#### Abnormal Pattern

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).



CytoTest Inc.  
9430 Key West Ave., Suite 210  
Rockville, MD 20850, USA

\* 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.

#### India Contact:

#### Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)