

FGFR3 Break Apart FISH Probe Kit

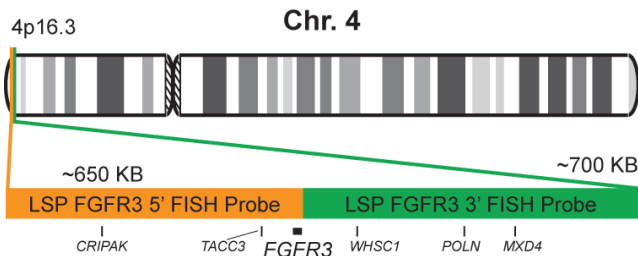
Introduction

The FGFR3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *FGFR3* gene located on chromosome band 4p16.3. 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 *FGFR3* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *FGFR3* gene – also known as *ACH*, *CEK2*, *JTK4*, *CD333* or *HSFGFR3EX* – have been observed in multiple myeloma, cervical and bladder cancer and other malignancies.

Intended Use
To detect rearrangements in the human <i>FGFR3</i> gene located on chromosome band 4p16.3.

Cont.	Color
LSP FGFR3 5' FISH Probe LSP FGFR3 3' FISH Probe	CytoOrange CytoGreen

Probe Design



LSP FGFR3 5' FISH Probe covers the 5' (start) portion of the *FGFR3* gene and some adjacent genomic sequences. LSP FGFR3 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *FGFR3* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.	Volume
CT-PAC329-10-OG	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.	

- O'Connor C. *Nature Education*. 1(1):171 (2008).
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- Webster MK & Donoghue DJ. *Trends Genet*. 13(5):178-82 (1997).
- Chesi M, et al. *Nat Genet*. 16(3):260-4 (1997).
- Richelda R, et al. *Blood*. 1997 Nov 15;90(10):4062-70 (1997).



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 Website: www.lifetechindia.com