CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

FGFR1 Break Apart FISH Probe Kit

Introduction

The FGFR1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human FGFR1 gene located on chromosome band 8p11.23. 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 FGFR1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the FGFR1 gene – also known as CEK, FLG, HH2, OGD, FLT2, KAL2, BFGFR, CD331, FGFBR, FLT-2, HBGFR, N-SAM, FGFR-1, HRTFDS or bFGF-R-1 – have been observed in a large number of hematological and solid tumor types, and other conditions.

Intended Use

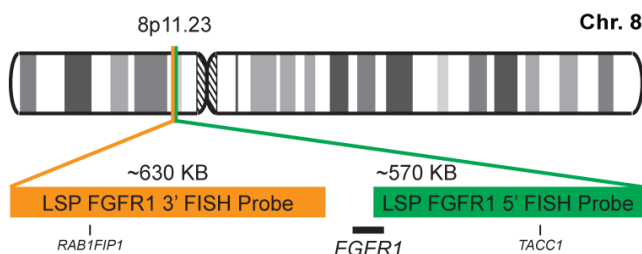To detect rearrangements in the human *FGFR1* gene located on chromosome band 8p11.23.

Cont.   Color

LSP FGFR1 5' FISH Probe   CytoGreen
LSP FGFR1 3' FISH Probe   CytoOrange

Probe Design

8p11.23   Chr. 8

~630 KB   ~570 KB
LSP FGFR1 3' FISH Probe   LSP FGFR1 5' FISH Probe
RAB1FIP1   FGFR1   TACC1

Not to Scale

LSP FGFR1 5' FISH Probe covers the 5' (start) portion of the *FGFR1* gene and some adjacent genomic sequences. LSP FGFR1 3' FISH Probe covers the sequences downstream (3' end) of the gene. The two probes are flanking sequences across the *FGFR1* gene in which variable breakpoints have been observed.

Cat. No.   Volume

CT-PAC056-10-GO   10 Tests (100 µL)

Signal Pattern Interpretation

<u>Normal Patterns</u>   <u>Abnormal Patterns</u>
2F*   Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Elbauomy Elsheikh S, et al. *Breast Cancer Res.* 9(2):R23 (2007).
2) Freier K, et al. *Oral Oncol.* 43(1):60-6 (2007).
3) Sahadevan K, et al. *J Pathol.* 213(1):82-90 (2007).
4) Sugiura K, et al. *Oncol Rep.* 2007 Mar;17(3):557-64 (2007).
5) Park TS, et al. *Cancer Genet Cytogenet.* 181(2):93-9 (2008).

-15℃
-25℃

CE   IVD

CytoTest Inc.
1395 Piccard Drive, Suite 308
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.

DCN032
© CytoTest Inc.

www.cytotest.com

V2024.01.01
T-07-10-PAC056-GO-EN