

CSF1R Break Apart FISH Probe Kit

Introduction

The CSF1R Break Apart FISH Probe Kit is designed to detect rearrangements in the human *CSF1R* locus mapping to chromosome band 5q32. 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 *CSF1R* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *CSF1R* gene – also known as *IFMS*, *CSFR*, *FIM2*, *HDLS*, *C-FMS*, *CD115*, *CSF-1R*, or *M-CSF-R* - have been observed in acute megakaryoblastic leukemia (AMKL), myelodysplastic syndrome (MDS), breast and cervical and other cancers.

Intended Use

To detect rearrangements in the human *CSF1R* locus situated on chromosome band 5q32.

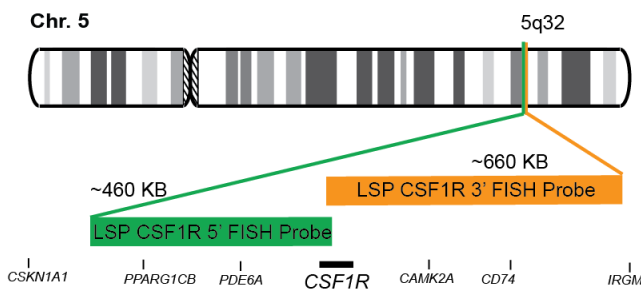
Cont.

LSP CSF1R 5' FISH Probe
LSP CSF1R 3' FISH Probe

Color

CytoGreen
CytoOrange

Probe Design



LSP CSF1R 5' FISH Probe covers the 5' (start) portion of the *CSF1R* locus and some adjacent genomic sequences. LSP CSF1R 3' FISH Probe covers sequences at the 3' (end) of the gene. The two probes are flanking sequences across the *CSF1R* locus in which variable breakpoints have been observed.

Not to Scale

Cat. No.

CT-PAC387-10-GO

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

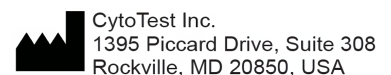
2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Nienhuis AW, et al. *Cell* 42(2):421-8 (1985).
- 2) Gu TL, et al. *Blood* 110(1):323-33 (2007).
- 3) Kascinski B, et al. *Cancer Treat. Res.* 107:285-92 (2002).
- 4) Herry A, et al. *Cancer Genet. Cytogenet.* 175(2):125-31 (2007).
- 5) Sun Y, Cook YR. *Leuk. Res.* 34(3):340-3 (2010).



* 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

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