

PDGFRB Break Apart FISH Probe Kit

Introduction

The PDGFRB Break Apart FISH Probe Kit is designed to detect rearrangements in the human *PDGFRB* gene located on 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 *PDGFRB* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *PDGFRB* gene – also known as *IMF1*, *IBGC4*, *JTK12*, *PDGFR*, *CD140B*, *PDGFR1* or *PDGFR-1* – have been observed in several chronic myeloproliferative disorders.

Intended Use

To detect rearrangements in the human *PDGFRB* gene located on chromosome band 5q32.

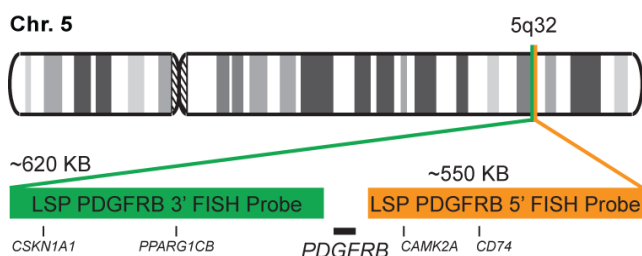
Cont.

LSP PDGFRB 5' FISH Probe
LSP PDGFRB 3' FISH Probe

Color

CytoOrange
CytoGreen

Probe Design



Not to Scale

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

Cat. No.

CT-PAC210-10-OG

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern

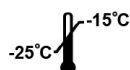
2OG*

Abnormal Pattern

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Baxter EJ, et al. *Br J Haematol.* 120(2):251-6 (2003).
- 2) Wilkinson K, et al. *Blood.* 102(12):4187-90 (2003).
- 3) Jones AV & Cross NC. *Cell Mol Life Sci.* 61(23):2912-23 (2004).
- 4) Morerio C, et al. *Cancer Res.* 64(8):2649-51 (2004).
- 5) Levine RL, et al. *Leukemia.* 19(1):27-30 (2005).



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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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