CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

PCM1 Break Apart FISH Probe Kit

Introduction

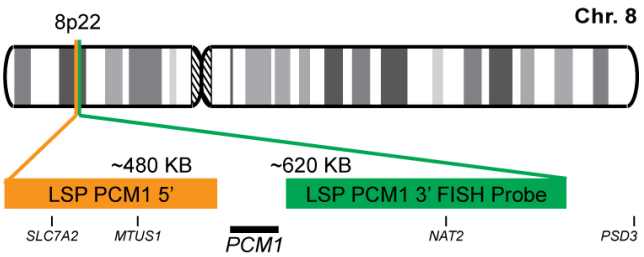
The PCM1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *PCM1* gene located on chromosome band 8p22. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other *PCM1* aberrations such as deletions or amplifications. Rearrangements and altered expression of this gene – also known as *PTC4* or *RET/PCM-1* – have been observed in papillary thyroid carcinomas and a variety of hematological malignancies, including atypical chronic myeloid leukemia and T-cell lymphoma.

Intended Use

To detect rearrangements the human *PCM1* gene located on chromosome band 8p22.

Cont.	Color
LSP PCM1 5' FISH Probe	CytoOrange
LSP PCM1 3' FISH Probe	CytoGreen

Probe Design



Not to Scale

LSP PCM1 5' FISH Probe covers some genomic sequences adjacent to the 5' (start) portion of the *PCM1* gene. LSP PCM1 3' FISH Probe covers sequences downstream of the 3' (end) part of the gene. The two probes are flanking sequences across the *PCM1* gene in which variable breakpoints have been observed.

Cat. No.	Volume
CT-PAC400-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2F*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Corvi R, et al. *Oncogene*. 19(37):4236-42 (2000).
2) Armes JE, et al. *Oncogene*. 23(33):5697-702 (2004).
3) Reiter A, et al. *Cancer Res*. 65(7):2662-7 (2005).
4) Huang KP, et al. *Int J Hematol*. 88(2):197-201 (2008).
5) Bain BJ & Ahmad S. *Br J Haematol*. 166(6):809-17 (2014).

-25°C -15°C

CE IVD

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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.