CytoTest ®

Premium **FISH** for Quality of Lives

PDGFRA Break Apart FISH Probe Kit

Introduction

The PDGFRA Break Apart FISH Probe Kit is designed to detect rearrangements in the human PDGFRA gene located on chromosome band 4q12. 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 PDGFRA aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the PDGFRA gene – also known as CD140A, PDGFR2, PDGFR-2 or RHEPDGFRA – have been observed in gastrointestinal stromal tumors (GIST), lung adenocarcinoma and other hematologic and solid tissue disorders.

Intended Use

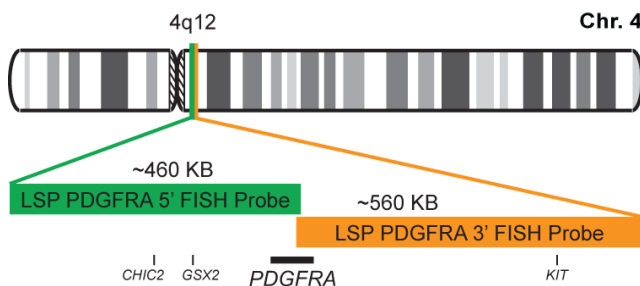To detect rearrangements in the human *PDGFRA* gene located on chromosome band 4q12.

Cont. / Color

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

Probe Design

4q12   Chr. 4

~460 KB
LSP PDGFRA 5' FISH Probe
~560 KB
LSP PDGFRA 3' FISH Probe
CHIC2   GSX2   PDGFRA   KIT

Not to Scale

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

Cat. No. / Volume

Cat. No.	Volume
CT-PAC091-10-GO	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2F*	Other Patterns

*Overlapping orange and green signals can appear as yellow.
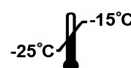
1) Gronwald RG, et al. *Hum Genet*. 85(3):383-5 (1990).
2) Lasota J & Miettinen M. *Histopathology*. 53(3):245-66 (2008).
3) Demoulin JB & Montano-Almendras CP. *Am J Blood Res*. 2(1):44-56 (2012).
4) Seo JS, et al. *Genome Res*. 22(11):2109-19 (2012).
5) Jain N, et al. *Blood*. 122(19):3387-8 (2013).

-15℃
-25℃
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.