

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.

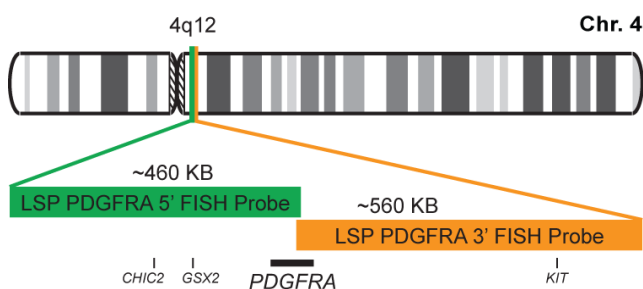
Intended Use

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

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

Probe Design



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.

Not to Scale

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

Normal Pattern	Abnormal Pattern
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2OG*	Other Patterns
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*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).



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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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