

PRKAR1A-RET Fusion/Translocation FISH Probe Kit

Introduction

The PRKAR1A-RET Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *PRKAR1A* and *RET* genes located on chromosome bands 17q24.2 and 10q11.21, respectively. Rearrangements between the two genes, the *PRKAR1A* gene – also called *ACRDYS1*, *ADOHR*, *CAR*, *CNC*, *CNC1*, *PKR1*, *PPNAD1*, *PRKAR1* or *TSE1* – and the *RET* gene – also known as *PTC*, *MTC1*, *HSCR1*, *MEN2A*, *MEN2B*, *RET51*, *CDHF12*, *CDHR16* or *RET-ELE1*, have been observed in a subtype of papillary thyroid carcinoma (PTC2).

Intended Use

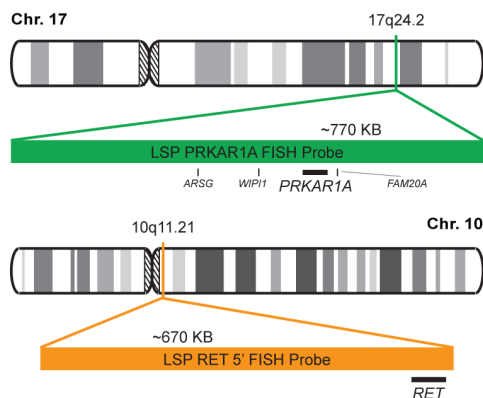
To detect rearrangements involving the human *PRKAR1A* and *RET* genes located on chromosome bands 17q24.2 and 10q11.21, respectively.

Cont.	Color
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LSP PRKAR1A FISH Probe
LSP RET 5' FISH Probe

CytoGreen
CytoOrange

Probe Design



LSP PRKAR1A FISH Probe covers a chromosomal region which includes the entire *PRKAR1A* gene. LSP RET 5' FISH Probe covers the entire *RET* gene as well as sequences upstream (5' start) of the gene. The probe set is optimized to reveal translocations between the two genes.

Cat. No.	Volume
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CT-PAC080-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern

2O + 2G*

Abnormal Pattern

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Bongarzone I, et al. *Cancer Res.* 54(11):2979-85 (1994).
- 2) Lam KY, et al. *Eur J Endocrinol.* 147(6):741-5 (2002).
- 3) Sandrini F, et al. *Genes Chromosomes Cancer.* 35(2):182-92 (2002).
- 4) Santoro M, et al. *Ann N Y Acad Sci.* 963:116-21 (2002).
- 5) Bertherat J, et al. *Cancer Res.* 63(17):5308-19 (2003).



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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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