

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.

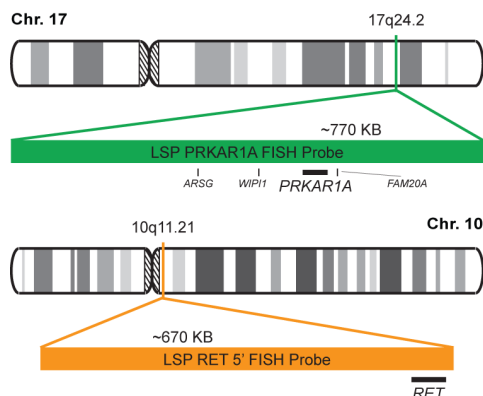
Cont.

Color

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

CT-PAC080-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Bongarzoni 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).

* 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.

DCN032

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