ENGLISH

For Professional Use Only

PRKAR1A-RET Fusion/Translocation FISH Probe Kit

Introduction

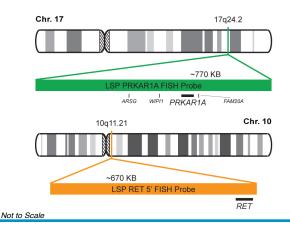
The PRKAR1A-RET Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *PRKAR1A* and *RET* genes located on chromosome bands 17q24.2 and 10q11.21, respectively. Rearrangements between the two genes, the *PRKAR1A* gene – also called *ACRDYS1*, *ADOHR*, *CAR*, *CNC*, *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	CytoGreen
LSP RET 5' FISH Probe	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 Pattern

2O + 2G*

Abnormal Pattern

Other Patterns

*Overlapping orange and green signals can appear as yellow.



^{*} 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.

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).