

NCOA4-RET Fusion/Translocation FISH Probe Kit

Introduction

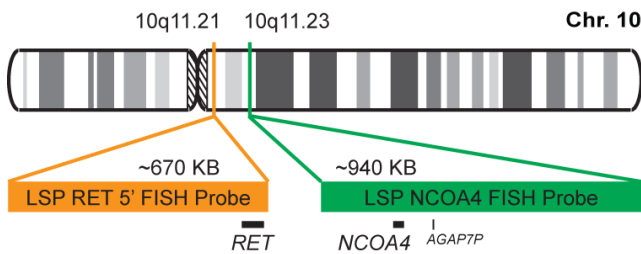
The NCOA4-RET Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *NCOA4* and *RET* genes located on chromosome bands 10q11.23 and 10q11.21, respectively. Rearrangements between the two genes, the *NCOA4* gene – also called *ARA70*, *ELE1*, *PTC3* or *RFG* – and 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 (PTC3,4).

Intended Use

To detect rearrangements involving the human *NCOA4* and *RET* genes located on chromosome bands 10q11.23 and 10q11.21, respectively.

Cont.	Color
LSP NCOA4 FISH Probe LSP RET 5' FISH Probe	CytoGreen CytoOrange

Probe Design



LSP NCOA4 FISH Probe covers a chromosomal region which includes the entire *NCOA4* gene. LSP RET 5' FISH Probe covers the entire *RET* gene as well as sequences upstream (5') of the gene. The probe set is optimized to reveal translocations between the two genes.

Not to Scale

Cat. No.	Volume
CT-PAC081-10-GO	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u>	<u>Abnormal Pattern</u>
2O + 2G*	Other Patterns
*Overlapping orange and green signals can appear as yellow.	

- 1) Santoro M, et al. *Oncogene*. 9(2):509-16 (1994).
- 2) Yeh S & Chang C. *Proc Natl Acad Sci U S A*. 93(11):5517-21 (1996).
- 3) Powell DJ Jr, et al. *Cancer Res*. 58(23):5523-8 (1998).
- 4) Alen P, et al. *Mol Endocrinol*. 13(1):117-28 (1999).
- 5) Tallini G & Asa SL. *Adv Anat Pathol*. 8(6):345-54 (2001).



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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.