

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.

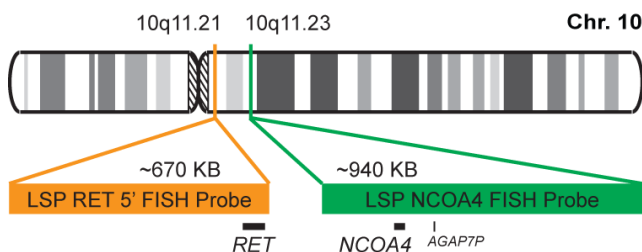
Cont.

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

Normal Patterns

2O2G*

Abnormal Patterns

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).

* 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.