



For Professional Use Only

RET Break Apart FISH Probe Kit

Introduction

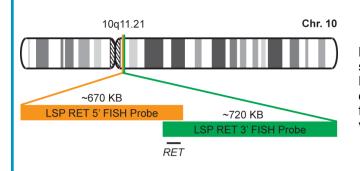
The RET Break Apart FISH Probe Kit is designed to detect rearrangements in the human RET gene located on chromosome band 10q11.21. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other RET aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the RET gene - also known as PTC, MTC1, HSCR1, MEN2A, MEN2B, RET51, CDHF12, CDHR16 or RET-ELE1 - have been observed in endocrine neoplasias, medullary and papillary thyroid carcinoma, pheochromocytoma and various other tumor

Intended Use

To detect rearrangements in the human *RET* gene located on chromosome band 10q11.21.

Cont.	Color
LSP RET 5' FISH Probe	CytoOrange
LSP RET 3' FISH Probe	CytoGreen

Probe Design



LSP RET 5' FISH Probe covers the *RET* gene and some sequences upstream of the 5' end. LSP RET 3' FISH Probe covers the gene as well as sequences downstream (3' end) of the gene. The two probes are flanking sequences across the RET gene in which various breakpoints have been observed.

Not to Scale

Cat. No.	Volume
CT-PAC051-10-OG	10 Tests (100 μL)

Signal Pattern Interpretation

Normal Pattern Abnormal Pattern 20G* Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 2) Mulligan LM, et al. Nature. 363(6428):458-60 (1993).
- 3) Edery P, et al. Nature. 367(6461):378-80 (1994).
- 4) Bunone G, et al. Cancer Res. 60(11):2845-9 (2000).
- 5) Jhiang SM. Oncogene. 19(49):5590-7 (2000).

-25°C CytoTest Inc. 9430 Key West Ave., Suite 210 Rockville, MD 20850, USA

¹⁾ Ishizaka Y, et al. Oncogene. 4(12):1519-21 (1989).

^{*} 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.