CytoTest®
Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

KIF5B-RET Fusion/Translocation FISH Probe Kit

Introduction

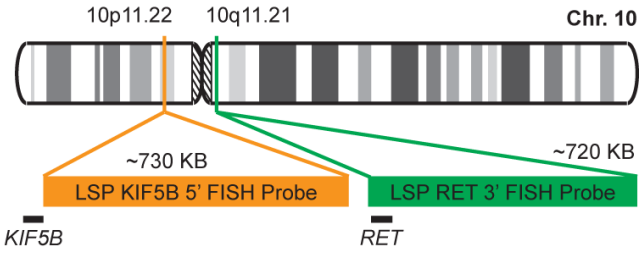
The KIF5B-RET Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human *KIF5B* and *RET* genes located on chromosome bands 10p11.22 and 10q11.21, respectively. Rearrangements and abnormal expression of the *KIF5B* gene – also known as *KNS*, *KINH*, *KNS1*, *UKHC* or *HEL-S-61* – and between the two genes have been observed in lung adenocarcinoma and other tumor types.

Intended Use

To detect rearrangements involving the human *KIF5B* and *RET* genes located on chromosome bands 10p11.22 and 10q11.21, respectively.

Cont.	Color
LSP KIF5B 5' FISH Probe LSP RET 3' FISH Probe	CytoOrange CytoGreen

Probe Design



Not to Scale

LSP KIF5B 5' FISH Probe covers the 5' (start) portion of the *KIF5B* gene and some adjacent genomic sequences. LSP RET 3' FISH Probe covers the *RET* gene as well as sequences downstream (3' end) of the gene. The probe set is optimized to reveal translocations between the two gene regions.

Cat. No.	Volume
CT-PAC076-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern	Abnormal Pattern
2O + 2G*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Sasaki H, et al. *Cancer Med.* 1(1):68-75 (2012).
2) Borrelli N, et al. *Lung Cancer.* 81(3):377-81 (2013).
3) Go H, et al. *Lung Cancer.* 82(1):44-50 (2013).
4) Wu YC, et al. *PLoS One.* 8(8):e70839 (2013).
5) Tsuta K, et al. *Br J Cancer.* 110(6):1571-8 (2014).

-25°C -15°C CE IVD

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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.