

KIF5B Break Apart FISH Probe Kit

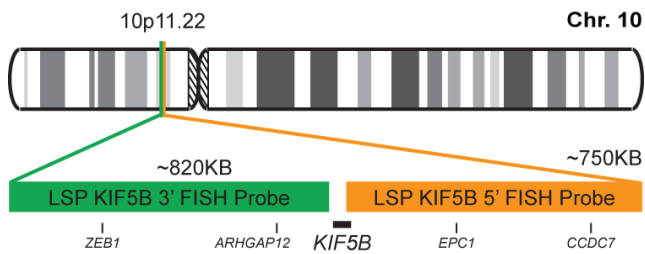
Introduction

The KIF5B Break Apart FISH Probe Kit is designed to detect rearrangements in the human *KIF5B* gene located on chromosome band 10p11.22. 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 *KIF5B* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *CKIF5B* gene – also known as *KNS*, *KINH*, *KNS1*, *UKHC* or *HEL-S-61* – have been observed in lung adenocarcinoma and other tumor types.

Intended Use
To detect rearrangements in the human <i>KIF5B</i> gene located on chromosome band 10p11.22.

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

Probe Design



LSP KIF5B 5' FISH Probe covers the 5' (start) portion of the *KIF5B* gene and some adjacent genomic sequences. LSP KIF5B 3' FISH Probe covers some sequences downstream (3' end) of the gene. The two probes are flanking sequences across the *KIF5B* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.	Volume
CT-PAC135-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Patterns</u> 2F*	<u>Abnormal Patterns</u> 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).



* 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.