

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 KIF5B 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 *KIF5B* gene located on chromosome band 10p11.22.

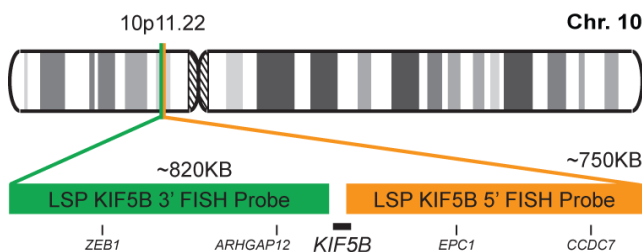
Cont.

LSP KIF5B 5' FISH Probe
LSP KIF5B 3' FISH Probe

Color

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.

Cat. No.

CT-PAC135-10-OG

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

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.