

NTRK3 Break Apart FISH Probe Kit

Introduction

The NTRK3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *NTRK3* gene located on chromosome band 15q25.3. 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 *NTRK3* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *NTRK3* gene – also known as *TRKC*, *GP145-TrkC* or *gp145(trkC)* – has been observed in medulloblastoma, fibrosarcoma, nephroma, some breast carcinoma subtypes and other malignancies.

Intended Use

To detect rearrangements in the human *NTRK3* locus situated on chromosome band 15q25.3.

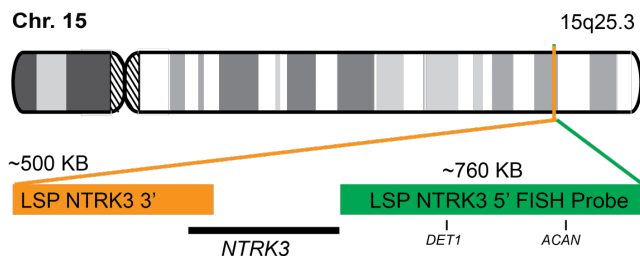
Cont.

Color

LSP NTRK3 5' FISH Probe
LSP NTRK3 3' FISH Probe

CytoGreen
CytoOrange

Probe Design



Not to Scale

LSP NTRK3 5' FISH Probe covers the 5' (start) portion of the *NTRK3* gene and some adjacent genomic sequences. LSP NTRK3 3' FISH Probe covers sequences at the 3' (end) of the gene and some downstream sequences. The two probes are flanking sequences across the *NTRK3* gene in which variable breakpoints have been observed.

Cat. No.

Volume

CT-PAC244-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Makretsov N, et al. *Genes Chromosomes Cancer*. 40(2):152-7 (2004).
2) Kralik JM, et al. *Diagn Pathol*. 6:19 (2011).
3) Knezevich SR, et al. *Nat. Genet*. 18(2):184-7 (1998)
4) Vokuhl C, et al. *Pediatr. Blood Cancer*. 65(4): doi: 10.1002/pbc.26925 (2018).
5) Chiang S, et al. *Am. J. Surg. Pathol*. 42(6):791-798 (2018).

* 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.