

# NTRK2 Break Apart FISH Probe Kit

## Introduction

The NTRK2 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *NTRK2* gene located on chromosome band 9q21.33. 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 *OBHD*, *TRKB*, *trkB*, *EIEE58* or *GP145-TrkB* - has been observed in neuroblastoma, pancreatic ductal adenocarcinoma, Wilms' tumors and colorectal cancer, and a number of developmental and metabolic disorders.

## Intended Use

To detect rearrangements in the human *NTRK2* locus situated on chromosome band 9q21.33.

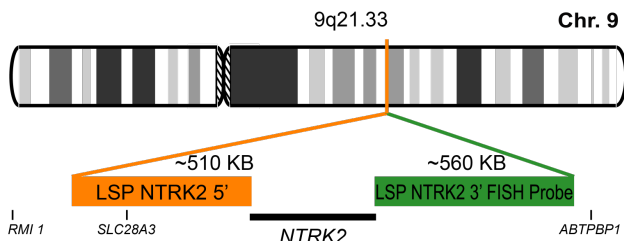
## Cont.

LSP NTRK2 5' FISH Probe  
LSP NTRK2 3' FISH Probe

## Color

CytoOrange  
CytoGreen

## Probe Design



LSP NTRK2 5' FISH Probe covers the 5' (start) portion of the *NTRK2* locus and some adjacent genomic sequences. LSP NTRK2 3' FISH Probe covers sequences at the 3' (end) of the gene. The two probes are flanking sequences across the *NTRK2* locus in which variable breakpoints have been observed.

Not to Scale

## Cat. No.

CT-PAC396-10-OG

## Volume

10 Tests (100 µL)

## Signal Pattern Interpretation

### Normal Patterns

2F

### Abnormal Patterns

Other Patterns

- 1) Nakagawara, A, et al. *Genomics* 25(2):538-46 (1995).
- 2) Lange, AM & Lo, HW. *Cancers (Base)* 10(4) pii: E105. doi: 10.3390/cancers10040105 (2018).
- 3) Prabhakaran, N, et al. *Neuropathology* Mar 4. doi: 10.1111/neup.12458. (2018).
- 4) Suurmeijer, AJH, et al. *Genes Chromosomes Cancer* 57(12):611-621 (2018).
- 5) Remoué, A, et al. *Pathol. Int.* 2:94-96 (2019).

\* 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.



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