

# NTRK1 Break Apart FISH Probe Kit

## Introduction

The NTRK1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *NTRK1* gene located on chromosome band 1q23.1. 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 *NTRK1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *NTRK1* gene – also known as *MTC*, *TRK*, *TRK1*, *TRKA*, *Trk-A* or *p140-TrkA* – have been observed in papillary thyroid carcinoma and other malignancies.

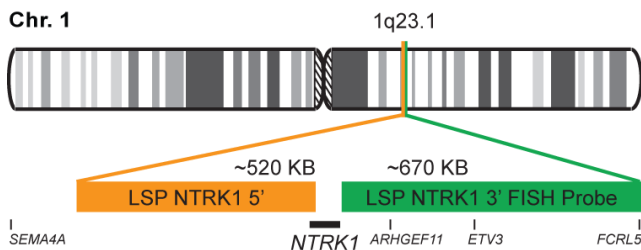
## Intended Use

To detect rearrangements in the human *NTRK1* gene located on chromosome band 1q23.1.

Cont.	Color
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LSP NTRK1 5' FISH Probe LSP NTRK1 3' FISH Probe	CytoOrange CytoGreen
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## Probe Design



LSP NTRK1 5' FISH Probe covers sequences adjacent to the 5' (start) portion of the *NTRK1* gene. LSP NTRK1 3' FISH Probe covers some sequences downstream (3' end) of the gene. The two probes are flanking sequences across the *NTRK1* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.	Volume
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CT-PAC143-10-OG	10 Tests (100 µL)
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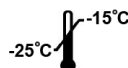
## Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
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2F*	Other Patterns
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\*Overlapping orange and green signals can appear as yellow.

- 1) Greco A, et al. *Oncogene*. 7(2):237-42 (1992).
- 2) Weier HU, et al. *Genomics*. 26(2):390-3 (1995).
- 3) Gimm O, et al. *J Clin Endocrinol Metab*. 84(8):2784-7 (1999).
- 4) Perez-Pinera P, et al. *Mol Cell Biochem*. 295(1-2):19-26 (2007).
- 5) Greco A, et al. *Mol Cell Endocrinol*. 321(1):44-9 (2010).



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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.

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