

BRAF Break Apart FISH Probe Kit

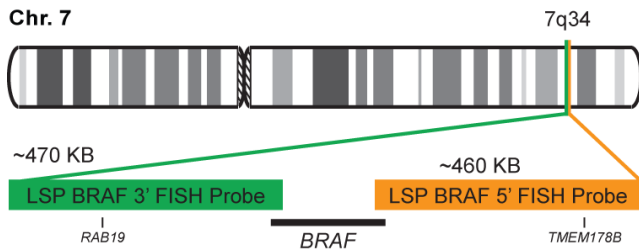
Introduction

The BRAF Break Apart FISH Probe Kit is designed to detect rearrangements in the human *BRAF* gene located on chromosome band 7q34. 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 *BRAF* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *BRAF* gene – also known as *v-raf murine sarcoma viral oncogene homolog B1*, *BRAF1* or *RAF1* – have been found in solid tumors like melanoma, colorectal cancer, ovarian cancer, papillary thyroid cancer and other malignancies.

Intended Use
To detect rearrangements in the human <i>BRAF</i> gene located on chromosome band 7q34.

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

Probe Design



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

Not to Scale

Cat. No.	Volume
CT-PAC120-10-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) Davies H, et al. *Nature*. 417(6892):949-54 (2002).
- 2) Oliveira C, et al. *Oncogene*. 22(57):9192-6 (2003).
- 3) Pollock PM, et al. *Nat Genet*. 33(1):19-20 (2003).
- 4) Tuveson DA, et al. *Cancer Cell*. 4(2):95-8 (2003).
- 5) Shih IeM & Kurman RJ. *Am J Pathol*. 164(5):1511-8 (2004).



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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.