

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 *RAFB1* – 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 *BRAF* gene located on chromosome band 7q34.

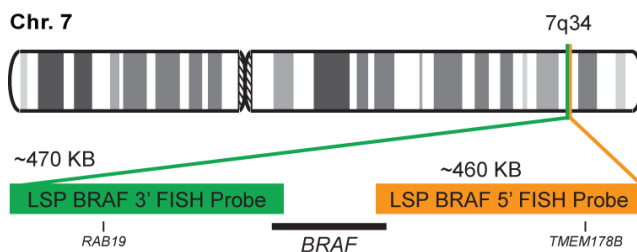
Cont.

LSP BRAF 5' FISH Probe
LSP BRAF 3' FISH Probe

Color

CytoOrange
CytoGreen

Probe Design



Not to Scale

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.

Cat. No.

CT-PAC120-10-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) 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).



CytoTest Inc.
9430 Key West Ave., Suite 210
Rockville, MD 20850, USA

* 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.

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Road No. 44, Pitampura, Delhi – 110034, India

Mobile: +91-98105-21400, Tel: +91-11-42208000, 8111, 8222, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com; www.atzlabs.com; www.lifetechindia.com