

ABL1 Break Apart FISH Probe Kit

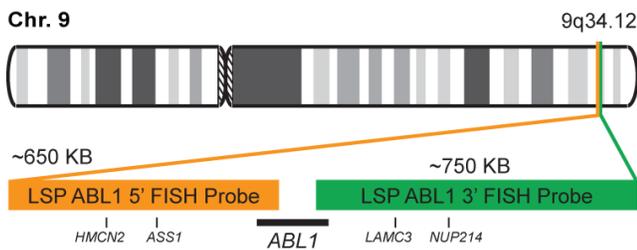
Introduction

The ABL1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *ABL1* gene located on chromosome band 9q34.12. 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 *ABL1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *ABL1* gene – also known as *v-abl*, *p150*, *c-ABL1*, *c-ABL*, *bcr/abl*, *JTK7* or *ABL* – have been observed in acute lymphoblastic leukemia (ALL), chronic myelogenous leukemia (CML), acute myeloid leukemia (AML) and other malignancies.

Intended Use
To detect rearrangements in the human <i>ABL1</i> gene located on chromosome band 9q34.12.

Cont.	Color
LSP ABL1 5' FISH Probe LSP ABL1 3' FISH Probe	CytoOrange CytoGreen

Probe Design



LSP ABL1 5' FISH Probe covers the 5' (start) portion of the *ABL1* gene and some adjacent genomic sequences. LSP ABL1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *ABL1* gene in which variable breakpoints have been observed.

Not to Scale

Cat. No.	Volume
CT-PAC115-10-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) Rowley JD. *Nature*. 243(5405):290-3 (1973).
- 2) Deininger MW, et al. *Blood*. 96(10):3343-56 (2000).
- 3) Perrotti D, et al. *Nat Genet*. 30(1):48-58 (2002).
- 4) Calabretta B1 & Perrotti D. *Blood*. 103(11):4010-22 (2004).
- 5) Bueno MJ, et al. *Cancer Cell*. 13(6):496-506 (2008).

