

# MYB Break Apart FISH Probe Kit

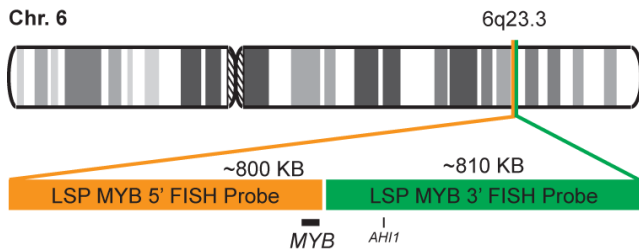
## Introduction

The MYB Break Apart FISH Probe Kit is designed to detect rearrangements in the human *MYB* gene located on chromosome band 6q23.3. 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 *MYB* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *MYB* gene – also known as *efg*, *Cmyb*, *c-myb* or *c-myb\_CDS* – have been observed in acute and lymphoid leukemias, colorectal, breast and other solid tumors and malignancies.

Intended Use
To detect rearrangements in the human <i>MYB</i> gene located on chromosome band 6q23.3.

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

## Probe Design



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

Not to Scale

Cat. No.	Volume
CT-PAC055-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u> 2OG*	<u>Abnormal Pattern</u> Other Patterns
*Overlapping orange and green signals can appear as yellow.	

- 1) Kauraniemi P, et al. *Cancer Res.* 60(19):5323-8 (2000).
- 2) Clappier E, et al. *Blood.* 110(4):1251-61 (2007).
- 3) Greig KT, et al. *Semin Immunol.* 20(4):247-56 (2008).
- 4) Ramsay RG & Gonda TJ. *Nat Rev Cancer.* 8(7):523-34 (2008).
- 5) Murati A, et al. *Leukemia.* 23(1):85-94 (2009).



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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.