

MYC Break Apart LR FISH Probe Kit

Introduction

The MYC Break Apart LR (long-range) FISH Probe Kit probe set is designed to detect rearrangements involving regions of the human MYC gene located on chromosome band 8q24. In addition to revealing breaks, which lead to translocation of parts or all of the gene or its fusion to other genes, the probe set can also be used to identify other MYC aberrations such as deletions, amplifications or chromosome 8 hyperdiploidy. Rearrangements and abnormal expression of the MYC gene – also known as MRTL, MYCC, c-Myc or bHLHe39 – have been observed in Burkitt's Lymphoma and other hematological malignancies, myeloma, as well as breast, cervical, colon, ovarian and other tumor types.

Intended Use

To detect rearrangements in the human MYC gene located on chromosome band 8q24.

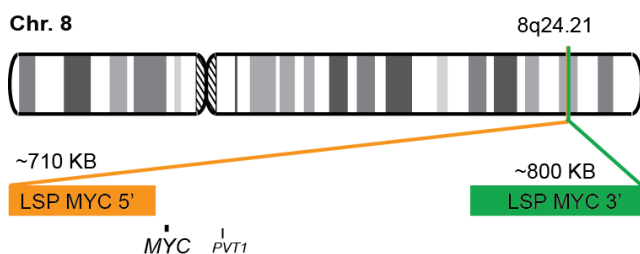
Cont.

Color

LSP MYC 5' LR FISH Probe
LSP MYC 3' LR FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

The kit contains two differentially labeled Locus Specific Probes (LSP), one covering a genomic area upstream (5') of the MYC gene, the other matching sequences downstream (3') of the gene. The two probes are designed to recognize sequences on both sides of an area in the 5' regulatory region of the MYC gene where breakpoints are frequently found.

Note: The majority of known MYC rearrangements will be detected with the standard MYC Break Apart FISH Probe Kit (Cat No. CT-PAC208). The LR (long range) version of this kit is optimized for the characterization of rearrangements resulting from breakpoints significantly downstream, i.e. distant from the MYC gene itself (class III breakpoints), which have been found to occur in some Burkitt's lymphoma cases and other subsets of lymphomas.

Cat. No.

Volume

CT-PAC228-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Depinho RA, et al. *Ann Clin Res.* 1986;18(5-6):284-9 (1986).
2) Garte SJ. *Crit Rev Oncog.* 4(4):435-49 (1993).
3) Einerson RR, et al. *Leukemia.* 20:1790-9 (2006).
4) Le Guillou S, et al. *Haematologica.* 92(10):1335-42 (2007).
5) Blomato J, et al. *Br J Cancer.* 90(8):1612-9 (2004).

* 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.