

PHF1 Break Apart FISH Probe Kit

Introduction

The PHF1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *PHF1* gene located on chromosome band 6p21.32. 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 *PHF1* aberrations such as deletions or amplifications. Rearrangements and altered expression of this gene – also known as *PCL1*, *PHF2*, *hPHF1*, *MTF2L2* or *TDRD19C* – have been observed in a number of carcinomas and other malignancies.

Intended Use

To detect rearrangements the human *PHF1* gene located on chromosome band 6p21.32.

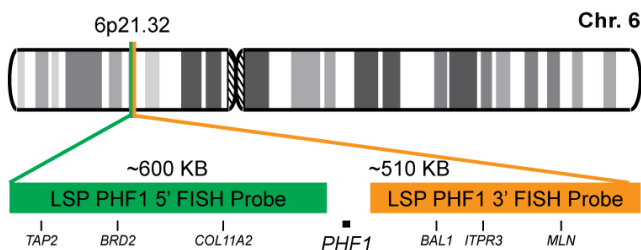
Cont.

LSP PHF1 5' FISH Probe
LSP PHF1 3' FISH Probe

Color

CytoGreen
CytoOrange

Probe Design



Not to Scale

LSP PHF1 5' FISH Probe covers some genomic sequences adjacent to the 5' (start) portion of the *PHF1* gene. LSP PHF1 3' FISH Probe covers sequences downstream of the 3' (end) part of the gene. The two probes are flanking sequences across the *PHF1* gene in which variable breakpoints have been observed.

Cat. No.

CT-PAC341-10-GO

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) Panagopoulos I, et al. *Cancer Genet Cytogenet.* 185(2):74-7 (2008).
 2) Gebre-Medhin S, et al. *Am J Pathol.* 181(3):1069-77 (2012).
 3) Antonescu CR, et al. *Genes Chromosomes Cancer.* 53(2):183-93 (2014).
 4) Micci F, et al. *Cancer Lett.* 347(1):75-8 (2014).
 5) Sbaraglia M, et al. *Pathologica.* 112(4):184-190 (2020).

* 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.

