

COL1A1 Break Apart FISH Probe Kit

Introduction

The COL1A1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human COL1A1 gene located on chromosome band 17q21.33. 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 COL1A1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the COL1A1 gene – also known as OI4 – have been observed in dermatofibrosarcoma protuberans (DFSP) and some other tumor types.

Intended Use

To detect rearrangements in the human COL1A1 gene located on chromosome band 17q21.33.

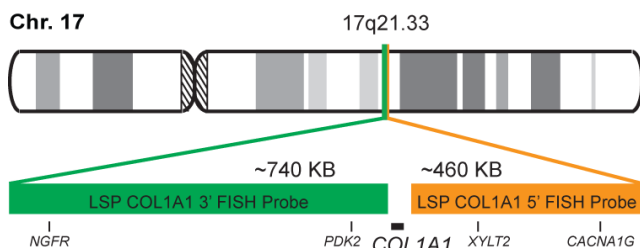
Cont.

Color

LSP COL1A1 5' FISH Probe
LSP COL1A1 3' FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP COL1A1 5' FISH Probe covers some sequences upstream of the 5' (start) portion of the COL1A1 gene. LSP COL1A1 3' FISH Probe covers some sequences downstream (3' end) of the gene. The two probes are flanking sequences across the COL1A1 gene in which various breakpoints have been observed.

Cat. No.

Volume

CT-PAC065-10-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) Pedetour F, et al. *Cytogenet Cell Genet.* 72(2-3):171-4 (1996).
2) Greco A, et al. *Oncogene.* 17(10):1313-9 (1998).
3) O'Brien KP, et al. *Genes Chromosomes Cancer.* 23(2):187-93 (1998).
4) Wang J, et al. *Diagn Mol Pathol.* 8(3):113-9 (1999).
5) Simon MP, et al. *Oncogene.* 20(23):2965-75 (2001).

* 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.