

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 *O14* – 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.

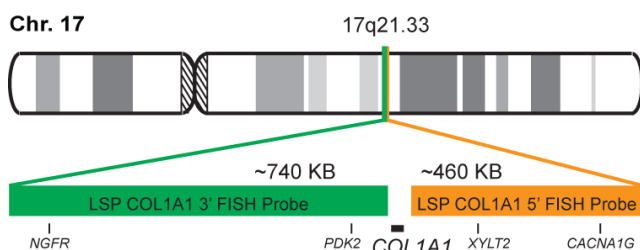
Cont.

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

Color

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.

CT-PAC065-10-OG

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern

2OG*

Abnormal Pattern

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Pedoutour 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).



CytoTest Inc.
9430 Key West Ave., Suite 210
Rockville, MD 20850, USA

* 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.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com