

CCND2 Break Apart FISH Probe Kit

Introduction

The CCND2 Break Apart FISH Probe Kit is designed to detect rearrangements in the human CCND2 gene located on chromosome band 12p13.32. 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 CCND2 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the CCND2 gene – also known as MPPH3 or KIAK0002 – have been observed in multiple myeloma, T-lineage acute lymphoblastic leukemia (T-ALL), germ cell tumors, sex cord-gonadal stromal tumors, peripheral nerve sheath tumors, and other malignancies.

Intended Use

To detect rearrangements in the human *CCND2* gene located on chromosome band 12p13.32.

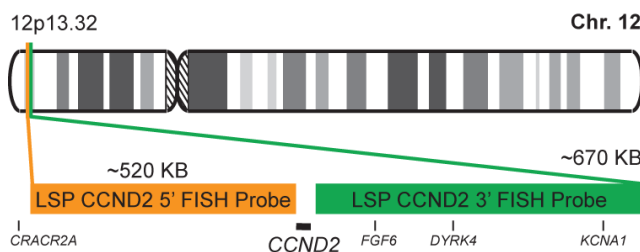
Cont.

Color

LSP CCND2 5' FISH Probe
LSP CCND2 3' FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP CCND2 5' FISH Probe covers genomic sequences upstream of the 5' end of the *CCND2* gene. LSP CCND2 3' FISH Probe covers sequences downstream of the 3' part of the gene. The two probes are flanking sequences across the *CCND2* gene in which variable breakpoints have been observed.

Cat. No.

Volume

CT-PAC241-10-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) Misiewicz-Krzeminska I et al. Clin Cancer Res. 22(1):207-17 (2016).
2) Chen X, et al. Epigenetics. 10(6):545-61 (2015).
3) Palmero I, et al. Oncogene. 8(4):1049-54 (1993).
4) Oshimo Y, et al. Int J Oncol. 23(6):1663-70 (2003).
5) Bergsagel PL, et al. Blood. 106(1):296-303 (2005).

* 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.