

CCNB3 Break Apart FISH Probe Kit

Introduction

The CCNB3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human CCNB3 gene located on chromosome band Xp11.22. 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 CCNB3 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the CCNB3 gene – also known as CYCB3 – have been observed in lung adenocarcinoma, round cell sarcoma, acute myeloid leukemia (AML), breast invasive lobular carcinoma and other malignancies.

Intended Use

To detect rearrangements in the human *CCNB3* gene located on chromosome band Xp11.22.

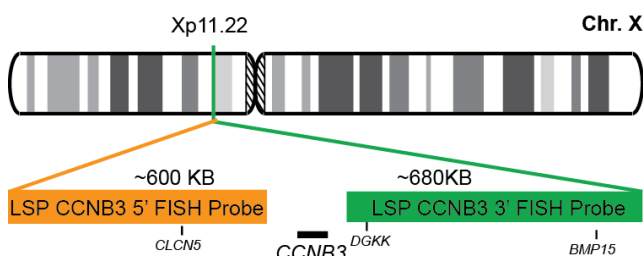
Cont.

Color

LSP CCNB3 5' FISH Probe
LSP CCNB3 3' FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP CCNB3 5' FISH Probe covers the sequences adjacent to the 5' (start) portion of the *CCNB3* gene. LSP CCNB3 3' FISH Probe covers the regions downstream of the 3' (end) part of the gene. The two probes are flanking sequences across the *CCNB3* gene in which variable breakpoints have been observed.

Cat. No.

Volume

CT-PAC227-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- Shibayama T, et al. *Pathol Int.* 65(8):410-4 (2015).
- Argani P, et al. *Am J Surg Pathol.* 41(12):1702-1712 (2017).
- Pierron G, et al. *Nat Genet.* 44(4):461-6 (2012).
- Elder RT, et al. *Virus Res.* 68(2):161-73 (2000).
- Gallant P & Nigg EA. *EMBO J.* 13(3):595-605 (1994).

* 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.

DCN032

© CytoTest Inc.



CytoTest Inc.
1395 Piccard Drive, Suite 308
Rockville, MD 20850, USA