

## HEY1-NCOA2 Dual Fusion/Translocation FISH Probe Kit

### Introduction

The HEY1-NCOA2 Dual Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human HEY1 and NCOA2 genes located on chromosome bands 8q21.13 and 8q13.3, respectively. Rearrangements involving portions of these two genes, the HEY1 gene – also known as CHF2, OAF1, HERP2, HESR1, HRT-1, NERP2, hHRT1 or BHLHb31 – and the NCOA2 gene – also called SRC2, TIF2, GRIP1, KAT13C, NCoA-2 or bHLHe75 – have been observed in mesenchymal chondrosarcoma, bladder urothelial carcinoma, chondrosarcoma, hemangioma, high grade ovarian serous adenocarcinoma, and other malignancies.

### Intended Use

To detect rearrangements involving the human HEY1 and NCOA2 genes located on chromosome bands 8q21.13 and 8q13.3, respectively.

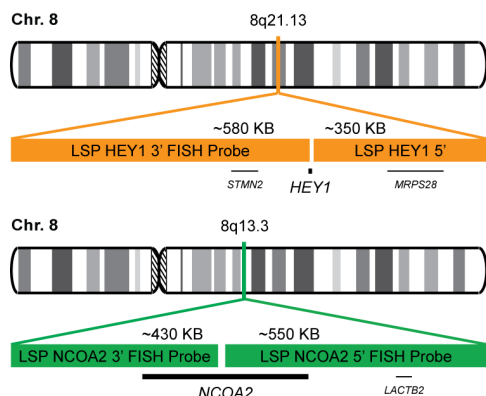
### Cont.

### Color

LSP HEY1 5'-3' FISH Probe  
LSP NCOA2 5'-3' FISH Probe

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

LSP HEY1 5'-3' FISH Probe covers the 3' (end) portion of the HEY1 gene and some genomic sequences adjacent to the 5' (start) and 3' (end) of the gene. LSP NCOA2 5'-3' FISH Probe covers the 5' (start) and 3' (end) part as well as sequences upstream and downstream of the NCOA2 gene, respectively. The probe set is optimized to reveal translocations between the two gene regions.

### Cat. No.

### Volume

CT-PAC463-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2O2G\*

#### Abnormal Patterns

Other Patterns

\*Overlapping orange and green signals can appear as yellow.

- 1) Fukuda Y, et al. Pathol Int. 64(5):237-42 (2014).
- 2) Panagopoulos I, et al. Oncol Rep. 32(1):40-4 (2014).
- 3) Mosquera JM, et al. Genes Chromosomes Cancer. 52(6):538-50 (2013).
- 4) Cohen JN, et al. Hum Pathol. 58:35-40 (2016).
- 5) Toki S, et al. Hum Pathol. 81:255-260 (2018).

\* 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

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