

PAX3-FOXO1 Fusion/Translocation FISH Probe Kit

Introduction

The PAX3-FOXO1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human PAX3 and FOXO1 genes located on chromosome bands 2q36.1 and 13q14.11, respectively. Rearrangements between the two genes, the PAX3 gene – also known as WS1, WS3, CDHS or HUP2 – and the FOXO1 gene – also called FKH1, FKHR or FOXO1A, have been observed in alveolar rhabdomyosarcoma (ARMS) and other tumor types and conditions.

Intended Use

To detect rearrangements involving the human PAX3 and FOXO1 genes located on chromosome bands 2q36.1 and 13q14.11, respectively.

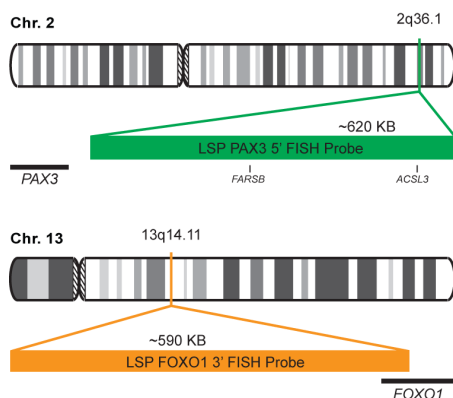
Cont.

Color

LSP PAX3 5' FISH Probe
LSP FOXO1 3' FISH Probe

CytoGreen
CytoOrange

Probe Design



LSP PAX3 5' FISH Probe covers some genomic sequences adjacent to the 5' (start) of the PAX3 gene. LSP FOXO1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the FOXO1 gene. The probe set is optimized to reveal translocations between the two regions.

Cat. No.

Volume

CT-PAC087-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Gallili N, et al. *Nat Genet.* 5(3):230-5 (1993).
- 2) Davis RJ & Barr FG. *Proc Natl Acad Sci U S A.* 94(15):8047-51 (1997).
- 3) Barr FG. *Oncogene.* 20(40):5736-46 (2001).
- 4) Sorensen PH, et al. *J Clin Oncol.* 20(11):2672-9 (2002).
- 5) Robson EJ, et al. *Nat Rev Cancer.* 6(1):52-62 (2006).

* 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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