

PAX7-FOXO1 Fusion/Translocation FISH Probe Kit

Introduction

The PAX7-FOXO1 Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human PAX7 and FOXO1 genes located on chromosome bands 1p36.13 and 13q14.11, respectively. Rearrangements between the two genes, the PAX7 gene – also known as HUP1, RMS2 or PAX7B – 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 PAX7 and FOXO1 genes located on chromosome bands 1p36.13 and 13q14.11, respectively.

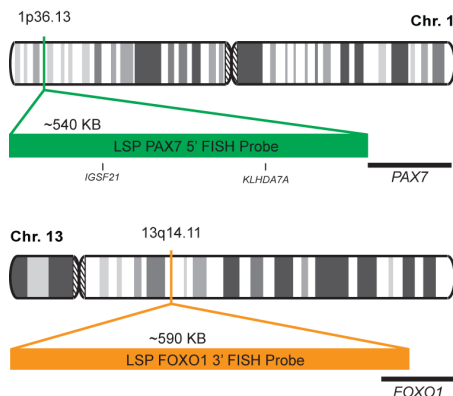
Cont.

Color

LSP PAX7 5' FISH Probe
LSP FOXO1 3' FISH Probe

CytoGreen
CytoOrange

Probe Design



LSP PAX7 5' FISH Probe covers some genomic sequences adjacent to the 5' end of the PAX7 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-PAC089-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

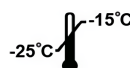
- 1) Barr FG, et al. *Cancer Res.* 59(21):5443-8 (1999).
- 2) Davis RJ & Barr FG. *Proc Natl Acad Sci U S A.* 94(15):8047-51 (1997).
- 3) Barr FG. *Oncogene.* 20(40):5736-46 (2001).
- 4) Sorensen PH, et al. *J Clin Oncol.* 20(11):2672-9 (2002).
- 5) Robson EJ, et al. *Nat Rev Cancer.* 6(1):52-62 (2006).

* 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.

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