

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.

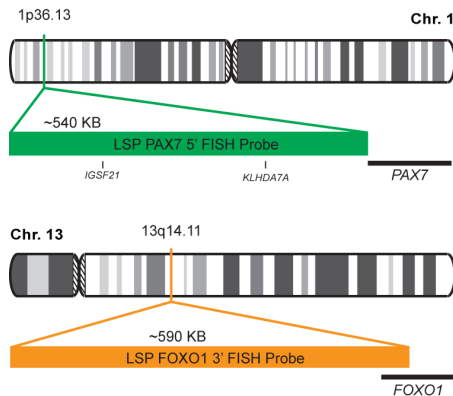
Cont.

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

Color

CytoGreen
CytoOrange

Probe Design



Not to Scale

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.

CT-PAC089-10-GO

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern

2O + 2G*

Abnormal Pattern

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).



CytoTest Inc.
9430 Key West Ave., Suite 210
Rockville, MD 20850, USA

* 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.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com