

PAX3 Break Apart FISH Probe Kit

Introduction

The PAX3 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *PAX3* gene located on chromosome band 2q36.1. 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 *PAX3* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *PAX3* gene – also known as *WS1*, *WS3*, *CDHS* or *HUP2* – have been observed in alveolar rhabdomyosarcoma (ARMS) and other tumor types and conditions.

Intended Use

To detect rearrangements in the human *PAX3* gene located on chromosome band 2q36.1.

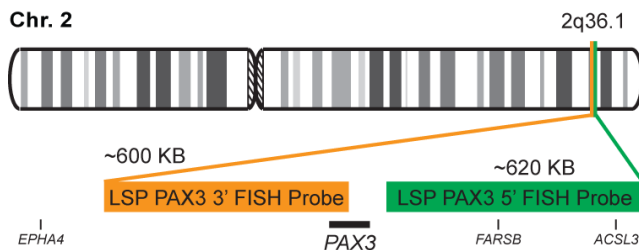
Cont.

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

Color

CytoGreen
CytoOrange

Probe Design



Not to Scale

LSP PAX3 5' FISH Probe covers some sequences upstream (5' start) of the *PAX3* gene. LSP PAX3 3' FISH Probe covers the 3' (end) portion of the gene and some adjacent genomic sequences. The two probes are flanking an area across the *PAX3* gene in which variable breakpoints have been observed.

Cat. No.

CT-PAC086-10-GO

Volume

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Pattern

2OG*

Abnormal Pattern

Other Patterns

*Overlapping orange and green signals can appear as yellow.

- 1) Galili 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).



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* 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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