CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

FOXO1 Break Apart FISH Probe Kit

Introduction

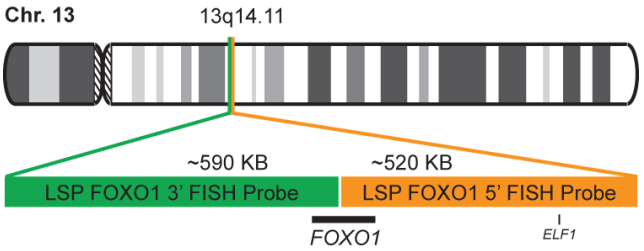
The FOXO1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human FOXO1 gene located on chromosome band 13q14.11. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other FOXO1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the FOXO1 gene – also known as FKH1, FKHR or FOXO1A – have been observed in alveolar rhabdomyosarcoma, prostate carcinoma and other tumor types.

Intended Use

To detect rearrangements in the human *FOXO1* gene located on chromosome band 13q14.11.

Cont.	Color
LSP FOXO1 5' FISH Probe	CytoOrange
LSP FOXO1 3' FISH Probe	CytoGreen

Probe Design



Not to Scale

LSP FOXO1 5' FISH Probe covers the center and the 5' (start) portion of the *FOXO1* gene and some adjacent genomic sequences. LSP FOXO1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *FOXO1* gene in which variable breakpoints have been observed.

Cat. No.	Volume
CT-PAC045-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2F*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Brunet A, et al. *Cell*. 96(6):857-68 (1999).
2) del Peso L, et al. *Oncogene*. 18(51):7328-33 (1999).
3) Nakamura N, et al. *Mol Cell Biol*. 20(23):8969-82 (2000).
4) Nakae J, et al. *Dev Cell*. 4(1):119-29 (2003).
5) Xia SJ & Barr FG. *Oncogene*. 23(41):6864-71 (2004).

-25°C -15°C CE IVD

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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.