CytoTest®
Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

SMARCB1 Break Apart FISH Probe Kit

Introduction

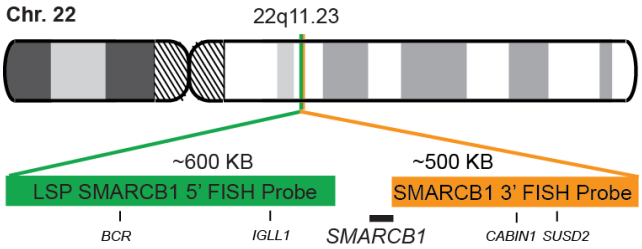
The SMARCB1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *SMARCB11* gene mapping to chromosome band 22q11.23. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other *SMARCB1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *SMARCB11* gene – also known as *RDT, CSS3, INI1, SNF5, Snr1, BAF47, MRD15, RTPS1, Sfh1p, hSNFS, SNF5L1, SWNTS1* or *PPP1R144* – have been observed in rhabdoid tumors and other malignancies and neoplastic predisposition syndromes.

Intended Use

To detect rearrangements in the human *SMARCB1* gene located on chromosome band 22q11.23.

Cont.	Color
LSP SMARCB1 5' FISH Probe	CytoGreen
LSP SMARCB1 3' FISH Probe	CytoOrange

Probe Design



Not to Scale

LSP SMARCB11 5' FISH Probe covers the 5' (start) portion of the *SMARCB11* gene and some adjacent genomic sequences. LSP SMARCB1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *SMARCB1* gene in which variable breakpoints have been observed.

Cat. No.	Volume
CT-PAC374-10-GO	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2F*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Eaton KW, et al. *Pediatr. Blood Cancer* 56(1):7-15 (2011).
2) Bahrami A, et al. *Cancer Genet.* 207(9):437-40 (2014).
3) Le Loarer F, et al. *Genes Chromosomes Cancer* 53(6):475-86 (2014).
4) Huang SC, et al. *Genes Chromosomes Cancer* 55(10):767-76 (2016).
5) Owosho AA, et al. *Genes Chromosomes Cancer* 57(2):89-95 (2018).

-25°C -15°C

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.

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