CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

RUNX1 Break Apart FISH Probe Kit

Introduction

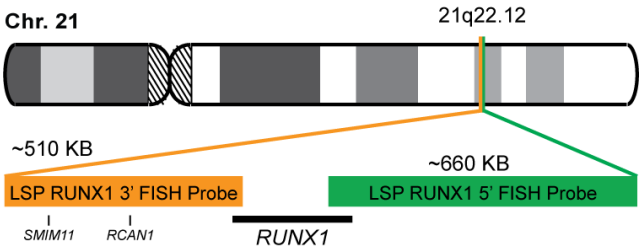
The RUNX1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human RUNX1 gene located on chromosome band 21q22.12. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other RUNX1 aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the RUNX1 gene – also known as AML1, CBFA2, EVI-1, AMLCR1, PEBP2aB, CBF2alpha, AML1-EVI-1 or PEBP2alpha – have been observed in acute non-lymphocytic leukemia and many other hematological malignancies.

Intended Use

To detect rearrangements in the human *RUNX1* gene located on chromosome band 21q22.12.

Cont.	Color
LSP RUNX1 5' FISH Probe	CytoGreen
LSP RUNX1 3' FISH Probe	CytoOrange

Probe Design



Not to Scale

LSP RUNX1 5' FISH Probe covers the 5' (start) portion of the *RUNX1* gene and some adjacent genomic sequences. LSP RUNX1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *RUNX1* gene in which variable breakpoints have been observed.

Cat. No.	Volume
CT-PAC393-10-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) Nucifora G & Rowley JD. *Blood*. 86(1):1-14 (1995).
2) Cleary ML. *Nat Genet*. 23(2):134-5 (1999).
3) Richkind K, et al. *Cancer Genet Cytogenet*. 122(2):141-3 (2000).
4) Michaud J, et al. *Blood*. 99(4):1364-72 (2002).
5) Mikhail FM, et al. *Cancer Genet Cytogenet*. 135(1):96-100 (2002).

-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.