CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

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HOXA Break Apart FISH Probe Kit

Introduction

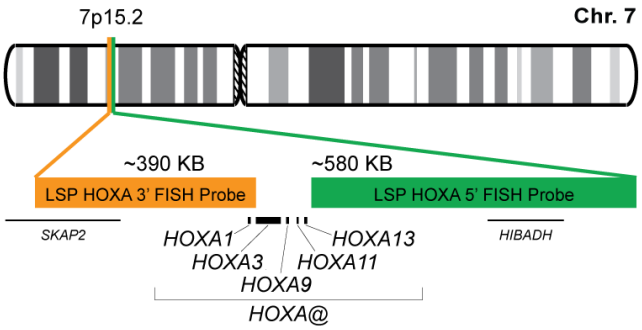
The HOXA Break Apart FISH Probe Kit is designed to detect rearrangements in the human *HOXA@* (a cluster of *HOXA* genes) located on chromosome band 7p15.2. In addition to revealing breaks, which can lead to translocation of parts of the gene cluster, inversion, or its fusion to other gene regions, the probe set can also be used to identify other *HOXA@* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *HOXA@* – also known as *HOX1@* – have been observed in acute myeloid leukemia, breast and prostate cancers, congenital limb malformations, reproductive tract anomalies and other malignancies.

Intended Use

To detect rearrangements in the human *HOXA@* located on chromosome band 7p15.2.

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

Probe Design



Not to Scale

LSP HOXA 5' FISH Probe covers some genomic sequences adjacent to 5' end of the *HOXA@*. LSP HOXA 3' FISH Probe covers some sequence downstream of the 3' end of the cluster. The two probes are flanking sequences across the *HOXA@* in which various breakpoints have been observed.

Cat. No.	Volume
CT-PAC497-10-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) Soulier J, et al. Blood. 106(1):274-86 (2005).
2) Sessa L, et al. RNA. 13(2):223-39 (2007).
3) Tas E, et al. Am J Med Genet A. 173(1):221-224 (2017).
4) Bond J, et al. Haematologica. 101(6):732-40 (2016).
5) Lodder EM, et al. Chromosome Res. 17(6):737-44 (2009).

-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.