CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

MNX1 Break Apart FISH Probe Kit

Introduction

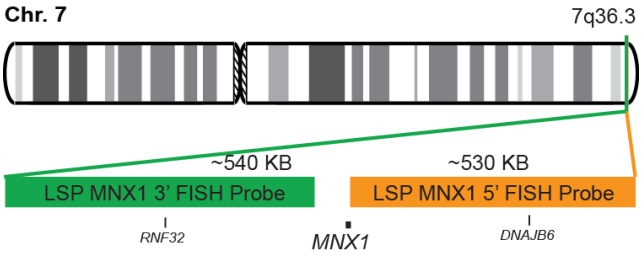
The MNX1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *MNX1* gene mapping to chromosome band 7q36.3. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other *MNX1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *MNX1* gene – also known as *HB9, HLXB9, SCRA1* or *HOXHB9* – have been observed in acute myeloid leukemia (AML) and other tumor types.

Intended Use

To detect rearrangements in the human *MNX1* gene mapping to chromosome band 7q36.3.

Cont.	Color
LSP MNX1 5' FISH Probe	CytoOrange
LSP MNX1 3' FISH Probe	CytoGreen

Probe Design



Not to Scale

LSP MNX1 5' FISH Probe covers the 5' (start) portion and most of the *MNX1* gene along with some adjacent genomic sequences. LSP MNX1 3' FISH Probe covers sequences downstream of the 3' (end) part of the gene. The two probes are flanking a region in the *MNX1* gene in which variable breakpoints have been observed.

Cat. No.	Volume
CT-PAC040-10-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) Park J, et al. *Cancer Genet Cytogenet.* 191(2):102-5 (2009).
2) Ballabio E, et al. *Leukemia.* 23(6):1179-82 (2009).
3) Harrison KA, et al. *J Biol Chem.* 269(31):19968-75 (1994).
4) Taketani T, et al. *Cancer Genet Cytogenet.* 186(2):115-9 (2008).
5) von Bergh ARM, et al. *Genes Chromosomes Cancer.* 45(8):731-9 (2006).

-25°C -15°C CE IVD

CytoTest Inc.
1395 Piccard Drive, Suite 308
Rockville, MD 20850, USA

* 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.