

ROS1 Break Apart FISH Probe Kit

Introduction

The ROS1 Break Apart FISH Probe Kit is designed to detect rearrangements in the human *ROS1* gene located on chromosome band 6q22.1. 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 *ROS1* aberrations such as deletions or amplifications. Rearrangements and abnormal expression of the *ROS1* gene – also known as *ROS*, *MCF3* or *c-ros-1* – have been observed in lung adenocarcinoma and various other tumor types.

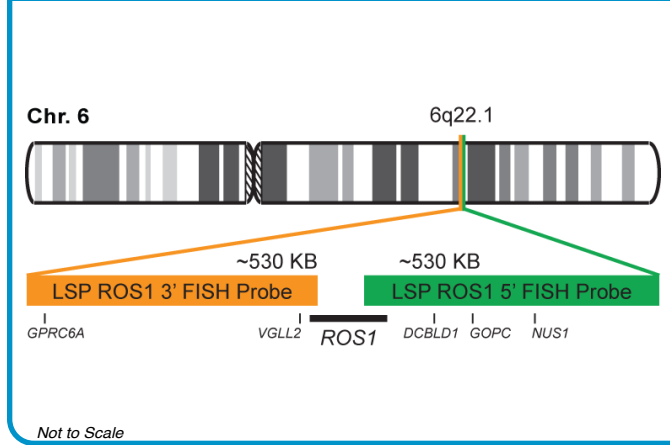
Intended Use

To detect rearrangements in the human *ROS1* gene located on chromosome band 6q22.1.

Cont.	Color
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LSP ROS1 5' FISH Probe LSP ROS1 3' FISH Probe	CytoGreen CytoOrange
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Probe Design



LSP ROS1 5' FISH Probe covers the 5' (start) portion of the *ROS1* gene and some adjacent genomic sequences. LSP ROS1 3' FISH Probe covers the 3' (end) part as well as sequences downstream of the gene. The two probes are flanking sequences across the *ROS1* gene in which variable breakpoints have been observed.

Cat. No.	Volume
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CT-PAC052-10-GO	10 Tests (100 µL)
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Signal Pattern Interpretation

Normal Pattern	Abnormal Pattern
2OG*	Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Bergethon K, et al. *J Clin Oncol*. 30(8):863-70 (2012).
 2) Lee SE, et al. *Mod Pathol*. 28(4):468-79 (2015).
 3) Jurmeister P, et al. *Lung Cancer*. 87(2):122-9 (2015).
 4) Shan L, et al. *PLoS One*. 10(3):e0120422 (2015).
 5) Pailler E, et al. *Ann Oncol*. pii: mdv165 (2015).



* 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.