

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.

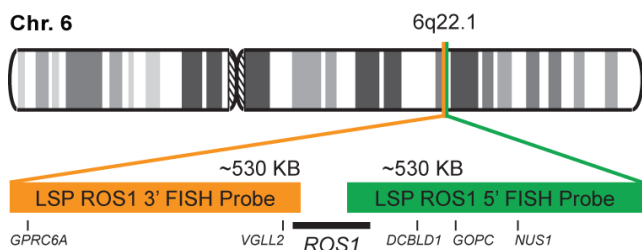
Cont.

Color

LSP ROS1 5' FISH Probe
LSP ROS1 3' FISH Probe

CytoGreen
CytoOrange

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

CT-PAC052-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2F*

Abnormal Patterns

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) Paillet 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.