

EML4-ALK Fusion/Translocation FISH Probe Kit

Introduction

The EML4-ALK Fusion/Translocation FISH Probe Kit is designed to detect rearrangements involving the human EML4 and ALK genes, located on chromosome bands 2p21 and 2p23.2, respectively. Fusion between the two genes (EML4 – also known as C2orf2, ELP120, EMAP-4, EMAPL4 or ROPP120 – and ALK – also known as CD246 or NBLST3) is a common event in a subset of non-small cell lung cancer (NSCLC) cases.

Intended Use

To detect rearrangements involving the human *EML4* and *ALK* genes located on chromosome bands 2p21 and 2p23.2, respectively.

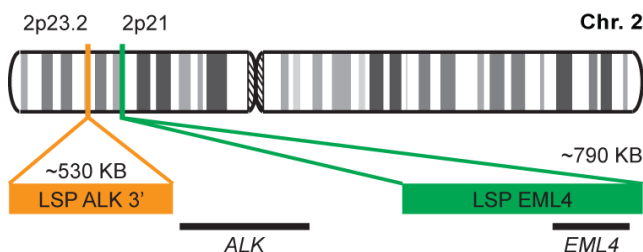
Cont.

Color

LSP EML4 FISH Probe
LSP ALK 3' FISH Probe

CytoGreen
CytoOrange

Probe Design



Not to Scale

LSP EML4 FISH Probe covers a chromosomal region which includes the entire *EML4* gene. LSP ALK 3' FISH Probe covers the 3' end of the *ALK* gene and the neighboring downstream region. The probe set is optimized to reveal translocations between the two genes.

Cat. No.

Volume

CT-PAC010-10-GO

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G*

Abnormal Patterns

Other Patterns

*Overlapping orange and green signals can appear as yellow.

1) Mino P & Wang HY. *Int J Clin Exp Pathol*. 5(5):397-410 (2012).
2) Chiarle R, et al. *Nat Rev Cancer*. 8(1):11-23 (2008).
3) Salido M, et al. *J Thorac Oncol*. 6(1):21-7 (2011).
4) Kwak EL, et al. *N Engl J Med*. 363(18):1693-703 (2010).
5) Thunnissen E, et al. *Virchows Arch*. 461(3):245-57 (2012).

* 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.