

# EML4-ALK Fusion/Translocation FISH Probe Kit

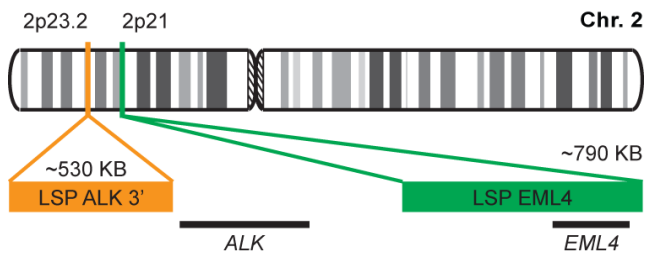
## Introduction

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 <i>EML4</i> and <i>ALK</i> 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



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.

Not to Scale

Cat. No.	Volume
CT-PAC010-10-GO	10 Tests (100 µL)

Signal Pattern Interpretation	
<u>Normal Pattern</u> 2O + 2G*	<u>Abnormal Pattern</u> Other Patterns
*Overlapping orange and green signals can appear as yellow.	

- 1) Minoo 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.