

## ALK Break Apart FISH Probe Kit

### Introduction

The ALK Break Apart FISH Probe Kit is designed to detect rearrangements in the human ALK gene located on chromosome band 2p23.2. 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 ALK aberrations such as deletions or amplifications. Initially discovered in anaplastic large cell lymphoma (ALCL), rearrangements of ALK – also known as CD246 or NBLST3 – have since been found in many types of malignancies, including B- and T-cell lymphomas, plasmacytomas, neuroblastoma, esophageal, breast, kidney, colon thyroid, lung and other cancers. A significant percentage of non-small cell lung cancer (NSCLC) cases harbor ALK gene abnormalities.

### Intended Use

To detect rearrangements in the human *ALK* gene located on chromosome band 2p23.2.

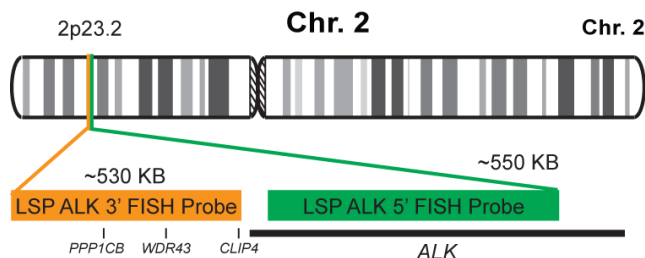
### Cont.

LSP ALK 5' FISH Probe  
LSP ALK 3' FISH Probe

### Color

CytoGreen  
CytoOrange

### Probe Design



Not to Scale

LSP ALK 5' FISH Probe covers the 5' and the center sequences of the *ALK* gene. LSP ALK 3' FISH Probe covers the 3' end and the neighboring downstream region. The two probes are designed to recognize sequences on both sides of a common breakpoint that is located inside the *ALK* gene.

### Cat. No.

CT-PAC009-10-GO

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

2F\*

#### Abnormal Patterns

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) Sasaki T, et al. *Eur J Cancer.* 46(10):1773-80 (2010).

\* 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.