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For Professional Use Only

# ALK Break Apart FISH Probe Kit

#### Introduction

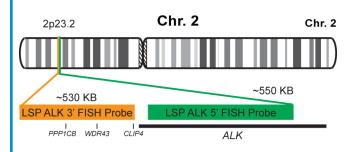
The ALK Break Apart FISH Probe Kit is designed to detect rearrangements in the human ALK gene located on chromosome band 2p23.2. In addition to revealing breaks, which can lead to translocation of parts of the gene, inversion, or its fusion to other genes, the probe set can also be used to identify other ALK aberrations such as deletions or amplifications. Initially discovered in anaplastic large cell lymphoma (ACLC), 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.	Color
LSP ALK 5' FISH Probe	CytoGreen
LSP ALK 3' FISH Probe	CytoOrange

# **Probe Design**



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.

Not to Scale

Cat. No.	Volume
CT-PAC009-10-GO	10 Tests (100 μL)

# **Signal Pattern Interpretation**

Normal Pattern

20G\*

Abnormal Pattern

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).

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#### **India Contact**:

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<sup>\*</sup> 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.