

Kreatech™ FISH probes

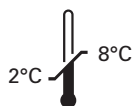
Product Information Sheet

KI-10747
ALK (2p23) Break
100 µl

DANGER



FORMAMIDE



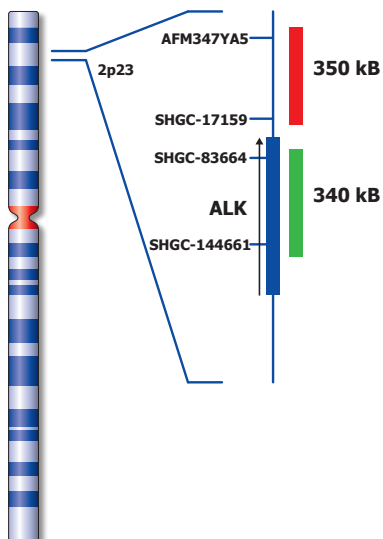
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RUO - Research Use Only

Not for use in diagnostic procedures

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Kreatech™ ALK (2p23) Break FISH probe

Introduction: The **ALK (2p23) Break** FISH probe is optimized to detect translocations involving the ALK gene region at 2p23.

Critical region 1 (red): The **distal ALK** gene region is direct-labeled with PlatinumBright™550.
Critical region 2 (green): The **proximal ALK** gene region is direct-labeled with PlatinumBright™495.

Reagent: Kreatech probes are direct-labeled DNA probes provided in a ready-to-use format. Apply 10 µl of probe to a sample area of approximately 22 x 22 mm.

Please refer to the Instructions for Use for the entire Kreatech FISH protocol.

Kreatech FISH probes are REPEAT-FREE™ and therefore do not contain Cot-1 DNA. Hybridization efficiency is increased and background, due to unspecific binding, is highly reduced.

Patterns: The **ALK (2p23) Break** FISH probe is designed as a dual-color assay to detect translocations of the ALK gene region at 2p23. The normal pattern should show two fusion signals (2F), while a translocation involving the ALK gene results in one fusion signal for the normal chromosome 2 and one red and one green signal for the translocation (1F1R1G). The inv(2) (p21;p23) is not accurately detected by the ALK break probe, instead the ALK/EML4 t(2;2) inv(2) Fusion probe (KI-10746) is recommended. Consult the local or general guidelines for interpretation of signal patterns other than shown in the table.

	Normal Signal Pattern	Translocation of the ALK gene
Expected Signals	2F	1F1R1G

References: Koivunen et al. Clin Cancer Res, 2008, 14, 4275-4283

Warning and precautions: In case of emergencies check SDS sheets for medical advice. SDS sheets may be obtained by either contacting Leica Technical Support or visiting www.LeicaBiosystems.com. DNA probes contain formaldehyde which is a teratogen; do not inhale or allow skin contact. Wear gloves and a lab coat when handling DNA probes. All materials should be disposed of according to your institution's guidelines for hospital waste disposal.

Reagent Storage and Handling: Store at 2-8 °C. Reagents should not be used after the expiration date on the vial label.

TECHNICAL SUPPORT Technical support is available at www.LeicaBiosystems.com/service-support/technical-support/ or toll free at 800-248-0123 or via e-mail: kreatech-support@leicabiosystems.com.

CUSTOMER SERVICE Kreatech probes may be ordered through Leica Customer Service toll free at 800-248-0123 or order via e-mail: purchase.orders@leica-microsystems.com.