

# Kreatech™ FISH probes

## Product Information Sheet

KI-10005

BCR/ABL1 t(9;22) Fusion

100 µl

**DANGER**



**FORMAMIDE**



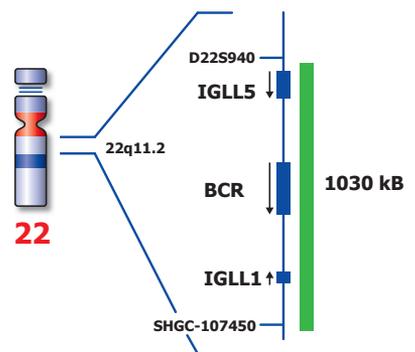
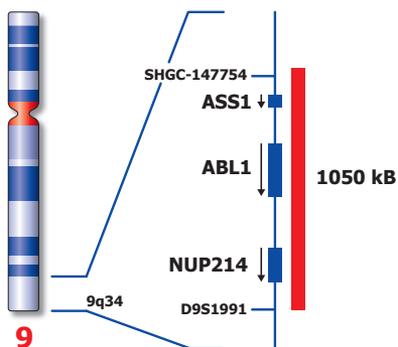
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**RUO - Research Use Only**

Not for use in diagnostic procedures

PI-KI-10005\_D2.1

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Not to scale

KI-10005

## Kreatech™ BCR/ABL1 t(9;22) Fusion FISH probe

**Introduction:** The **BCR/ABL1 t(9;22) Fusion** FISH probe is optimized to detect the t(9;22)(q34;q11) reciprocal translocation in a dual-color (DC), dual-fusion (DF) assay.

**Critical region 1 (red):** Sequences flanking the **ABL1 (9q34)** gene are direct-labeled with PlatinumBright™550.  
**Critical region 2 (green):** Sequences flanking the **BCR (22q11)** gene are 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 **BCR/ABL1 t(9;22) Fusion** FISH probe is designed as a dual-fusion probe to detect both rearranged chromosomes by two co-localized red/green (yellow) fusion signals (F). Single color red (R) and green (G) signals will identify the normal chromosomes 9 and 22. This FISH probe has been optimized to also detect a cryptic insertion of ABL1 in the BCR gene region or BCR into the ABL1 region. Insertion of ABL1 (9q34) into the BCR (22q11) region will be observed as one fusion-signal and an additional small remaining signal (r) at 9q34. Insertion of BCR (22q11) gene region into ABL1 (9q34) will be observed as one fusion-signal with an additional small remaining signal (g) at 22q11. Single color red (R) and green (G) signals will identify the normal chromosomes 9 and 22.

Signal patterns other than those described above may indicate variant translocations, deletions on der(9), der(22) or other complex rearrangements. Investigators are advised to analyze metaphase cells for the interpretation of atypical signal patterns.

	Normal Signal Pattern	t(9;22) BCR/ABL1	Ins(22;9)(q11;q34)	Ins(9;22)(q34;q11)
Expected Signals	2R2G	2F1R1G	1F1r1R1G	1F1g1R1G

**References:** Morris et al, 1990, Blood 76, 1812-1818  
Kolomietz et al., 2001. Blood 97; 3581-3588  
Huntly et al, 2003, Blood 102; 1160-1168

**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](http://www.LeicaBiosystems.com). DNA probes contain formamide 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/](http://www.LeicaBiosystems.com/service-support/technical-support/) or toll free at 800-248-0123 or via e-mail: [kreatech-support@leicabiosystems.com](mailto: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](mailto:purchase_orders@leica-microsystems.com).