

# Kreatech™ FISH probes

## Product Information Sheet

KI-10307

KMT2A/MLLT1 t(11;19) Fusion

100 µl

**DANGER**



**FORMAMIDE**



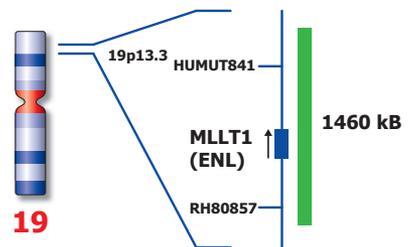
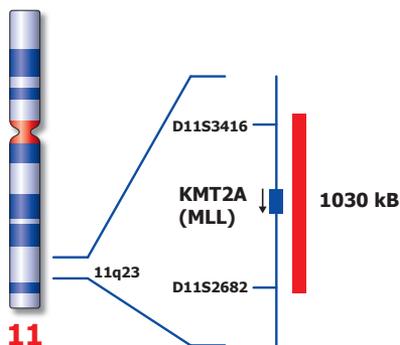
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**RUO - Research Use Only**

Not for use in diagnostic procedures

PI-KI-10307\_D2.1

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Not to scale

KI-10307

## Kreatech™ KMT2A/MLLT1 t(11;19) Fusion FISH probe

**Introduction:** The **KMT2A/MLLT1 Fusion FISH** probe is optimized to detect translocations involving the KMT2A (previously known as MLL) and MLLT1 gene regions at 11q23 and 19p13 in a dual-color, fusion assay.

**Critical region 1 (red):** The **KMT2A (11q23)** gene region probe is direct-labeled with PlatinumBright™550.  
**Critical region 2 (green):** The **MLLT1 (ENL) (19p13.3)** gene region probe 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 **KMT2A/MLLT1 t(11;19) Fusion FISH** probe is designed as a dual fusion probe to detect both rearranged chromosomes der(11) and der(19) by two co-localized red/green or yellow fusion signals (F). Only red and green signals which are less than one signal diameter apart from each other are counted as a fusion. Separate red and green signals identify the normal chromosome(s) 11 and 19 (2R2G). Translocations involving only the KMT2A region at 11q23 without the MLLT1 gene region as a fusion partner are seen as a gain of red signal by breaking of one of the red signals (3R2G).

Signal patterns other than those described above may indicate variant translocations or other complex rearrangements. Investigators are advised to analyze metaphase cells for the interpretation of atypical signal patterns.

	Normal Signal Pattern	Translocation involving KMT2A and MLLT1	Translocation involving KMT2A without MLLT1
Expected Signals	2R2G	2F1R1G	3R2G

**References:** Mitterbauer-Hohdanner G et al, 2004, Eur J Clin Invest, 34; 12-24  
Meyer C et al, 2009, Leukemia, 23; 1490-1499  
Fu JF et al, 2007, Am J Clin Pathol, 127; 24-30

**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).