

# Kreatech™ FISH probes

## Product Information Sheet

KI-10308

KMT2A/MLLT3 t(9;11) Fusion

100 µl

**DANGER**



**FORMAMIDE**



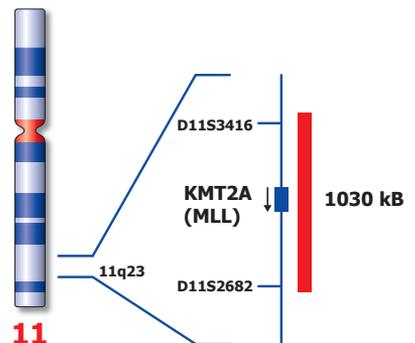
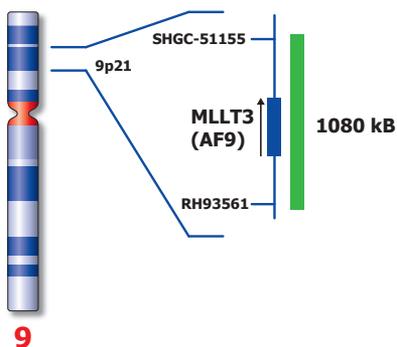
**Kreatech Biotechnology B.V.**  
Vlierweg 20  
1032 LG Amsterdam  
The Netherlands  
[www.LeicaBiosystems.com](http://www.LeicaBiosystems.com)

**RUO - Research Use Only**

Not for use in diagnostic procedures

PI-KI-10308\_D2.1

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Not to scale

KI-10308

## Kreatech™ KMT2A/MLLT3 t(9;11) Fusion FISH probe

**Introduction:** The **KMT2A/MLLT3 Fusion FISH** probe is optimized to detect translocations involving the KMT2A (previously known as MLL) and MLLT3 gene regions at 11q23 and 9p21 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 **MLLT3 (AF9) (9p21)** 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/MLLT3 t(9;11) Fusion FISH** probe is designed as a dual fusion probe to detect both rearranged chromosomes der(11) and der(9) 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 should be counted as a fusion. Separate red and green signals identify the normal chromosome(s) 11 and 9 (2R2G). Translocations involving the KMT2A region at 11q23 with another fusion partner than the MLLT3 gene region are seen as gain of red signal as a result of breakage of a red KMT2A signal (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 MLLT3	Translocation involving KMT2A without MLLT3
Expected Signals	2R2G	2F1R1G	3R2G

**References:** Palle J et al, 2005, Br J Haematol, 129; 189-198  
Meyer C et al, 2009, Leukemia, 23; 1490-1499  
Cavazzini F et al, 2006, Haematologica, 91; 381-5  
Balgobind BV et al, 2009, Blood, 114; 2489-96  
Keefe JG et al, 2010, J Mol Diagn, 12; 441-452

**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).