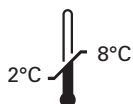


# Kreatech™ FISH probes

## Product Information Sheet

KBI-10102

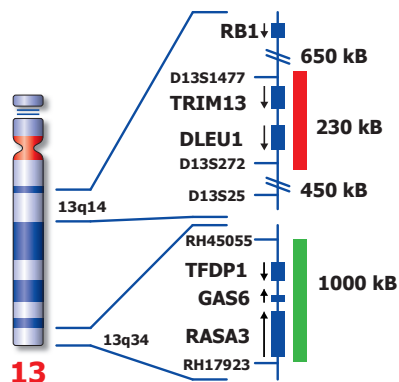
DLEU1 (13q14) / 13qter



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Not to scale

## Kreatech™ DLEU1 (13q14) / 13qter FISH probe

**Introduction:** Deletion at 13q involving the band q14 occurs frequently in B-cell chronic lymphocytic leukaemia (CLL), being detectable in 8 - 10% of patients by conventional cytogenetics and up to 40 - 50% of patients by FISH. This deletion is also reported for non-Hodgkin's lymphoma (NHL), including both low grade and aggressive lymphoma, and as a common genetic lesion in multiple myeloma. A minimal critical region has been shown to lie between the RB1 gene and the marker D13S25 containing the DLEU1, DLEU2, and RFP2 genes.

**Intended use:** The **DLEU1 (13q14)** specific FISH probe is optimized to detect copy numbers of the DLEU1 gene region at 13q14. The **13qter (13q34)** FISH probe is included to facilitate chromosome identification.

The probe is recommended to be used in combination with one of the Kreatech Pretreatment kits providing necessary reagents to perform FISH on various sample types for optimal results. (see also [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com) and look for Kits & reagents)

**Critical region (red):** The **DLEU1 (13q14)** specific FISH probe is direct-labeled with PlatinumBright™550.  
**Control region (green):** The **13qter** specific FISH 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.**

**Interpretation:** The **DLEU1 (13q14) / 13qter** FISH probe is designed as a dual-color assay to detect deletions at 13q14. Deletions involving the DLEU1 (13q14) gene region will show one red signal and two green signals at the 13qter control region (1R2G). Two single color red (R) and green (G) signals will identify the normal chromosomes 13 (2R2G).

|                  | Normal Signal Pattern | Del(13q14) | Del (13q14-13q34) |
|------------------|-----------------------|------------|-------------------|
| Expected Signals | 2R2G                  | 1R2G       | 1R1G              |

**References:** Stilgenbauer S et al., 1998, *Oncogene*, 16; 1891 – 1897  
 Wolf S et al, 2001, *Hum. Molec. Genet.*, 10; 1275-1285  
 Elnenaei M et al., 2003, *Genes Chromosomes Cancer*, 36; 99 – 106

**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](http://www.LeicaBiosystems.com) or +31 20 6919181 or via e-mail: [kreatech-support@leicabiosystems.com](mailto:kreatech-support@leicabiosystems.com).

**CUSTOMER SERVICE** Kreatech probes may be ordered through Leica Customer Service +31 20 6919181 or order via e-mail: [purchase.orders@leica-microsystems.com](mailto:purchase.orders@leica-microsystems.com).