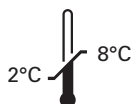


Kreatech™ FISH probes

Product Information Sheet

KBI-10207

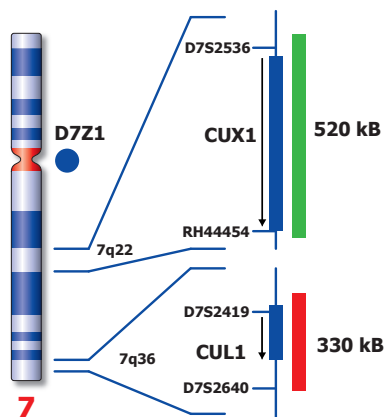
7q- (7q22; 7q36) / SE 7 Triple-Color



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PI-KBI-10207_D1.1

Published March 2015



Not to scale

Kreatech™ 7q- (7q22; 7q36) / SE 7 Triple-Color FISH probe

- Introduction:** Deletions of the long arm of chromosome 7 (7q-) is a common abnormality in MDS and AML. Two commonly deleted regions have been identified; one within band 7q22, the second is located more distal at bands 7q35 to 7q36. Although both regions are deleted in the majority of 7q- patients in some cases the deletion is restricted either to the 7q22 or 7q36 region.
- Intended use:** The **7q-** specific FISH probe is optimized to detect copy numbers of 7q at 7q22 and at 7q36 simultaneously in a triple-color assay. The **Satellite Enumeration (SE) 7** 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 and look for Kits & reagents)
- Critical region 1 (red):** The **7q- (7q36)** specific FISH probe is direct-labeled with PlatinumBright™550.
Critical region 2 (green): The **7q- (7q22)** specific FISH probe is direct-labeled with PlatinumBright™495.
Control region (blue): The **SE 7** specific FISH probe is direct-labeled with PlatinumBright™415.
- 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 **7q- (7q22; 7q36) / SE 7 Triple-Color** FISH probe is designed as a triple-color assay to detect deletions at 7q22 and 7q36. Deletions involving both critical regions at 7q22 and 7q36 will show one red, one green and 2 blue signals at 7cen (1R1G2B). Deletions involving the region at 7q36 only will show one red, two green, and two blue signals for the region at 7q22 and 7cen (1R2G2B). Deletions involving the region at 7q22 only will show one green, two red and two blue signals for the region at 7q36 and 7cen (2R1G2B). Two single color red (R), green (G), and blue (B) signals will identify the normal chromosomes 7 (2R2G2B).

	Normal Signal Pattern	Del(7q22)(7q36)	Del(7q36)	Del(7q22)
Expected Signals	2R2G2B	1R1G2B	1R2G2B	2R1G2B

- References:** Kratz C et al, 2001, Genomics, 77; 171-180
 Fischer K et al, 1997, Blood, 89; 2036-2041
 Döhner K et al, 1998, Blood, 92; 4031-4035

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 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 or +31 20 6919181 or via e-mail: 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.