

Kreatech™ FISH probes

Product Information Sheet

KBI-10117

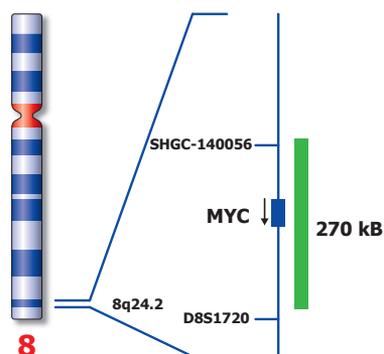
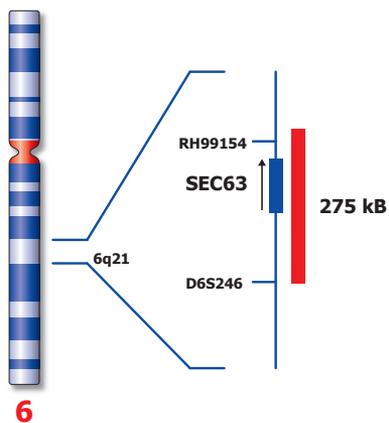
6q21 / MYC (8q24)



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Not to scale

Kreatech™ 6q21 / MYC (8q24) FISH probe

Introduction: Deletions affecting the long arm of chromosome 6 (6q) involving band 6q21 are among the most commonly observed chromosomal aberrations in lymphoid malignancies and have been identified as adverse prognostic factor in subsets of tumors. Amplification of MYC (8q24) has been described in many types of solid tumors, such as breast, cervical and colon cancers, as well as in myeloma, non-Hodgkin's lymphoma, gastric adenocarcinomas and ovarian cancer.

Intended use The **6q21** specific FISH probe is optimized to detect copy numbers of 6q at 6q21. The **MYC (8q24)** FISH probe is optimized to detect copy numbers of the MYC gene region at 8q24.

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 **6q21** specific FISH probe is direct-labeled with PlatinumBright™550.
Critical region 2 (green): The **MYC (8q24)** 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 **6q21 / MYC (8q24)** FISH probe is designed as a dual-color assay to detect deletions and amplifications at 6q21 and 8q24. Deletions involving the 6q21 region will show one red signal and two green signals for the MYC region at 8q24 (1R2G). Amplifications involving the MYC gene region will show three or more green signals and two red signals for the 6q21 region (2R3+G). Deletions and amplifications involving both critical regions at 6q21 and 8q24 will show one red and three or more green signals (1R3+G). Two single color red (R) and green (G) signals will identify the normal chromosomes 6 and 8 (2R2G).

	Normal Signal Pattern	Del(6q21)	Amp(8q24)
Expected Signals	2R2G	1R2G	2R3+G

References: Zhang, Y, 2000, Genes, Chrom. And Canc. 27; 52-58
 Bentz, M et al, 1995, Blood, 85; 3610-3618

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 formaldehyde 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.