

Kreatech™ FISH probes

Product Information Sheet

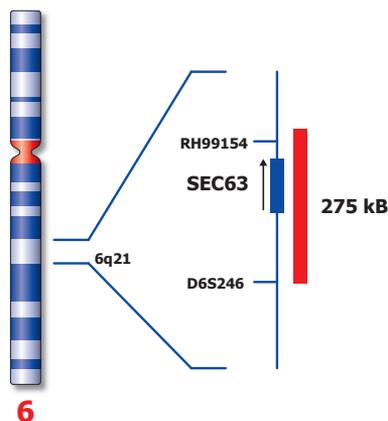
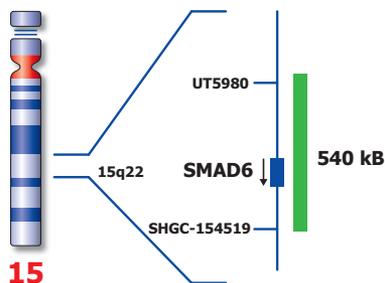
KBI-10504
15q22 / 6q21



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Not to scale

Kreatech™ 15q22 / 6q21 FISH probe

Introduction: Gain involving band 15q22 has recently been described in Multiple Myeloma. This aberration, together with others, is discussed to define a hyperdiploid subgroup in Multiple Myeloma patients. 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.

Intended use: The **15q22** specific FISH probe is optimized to detect copy numbers at 15q22. The **6q21** specific FISH region is optimized to detect copy numbers at 6q21.

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 **15q22** 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 **15q22 / 6q21** FISH probe is designed as a dual-color assay to detect amplifications or deletions at 15q22 and 6q21. Deletions involving the 6q21 region will show one red signal and two green signals for the 15q22 region (1R2G). Amplifications involving the 15q22 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 15q22 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 15 (2R2G).

	Normal Signal Pattern	Del(6q21)	Amp(15q22)	Del(6q21), Amp(15q22)
Expected Signals	2R2G	1R2G	2R3+G	1R3+G

References: Cremer F et al, 2005, Genes Chromosomes Cancer, 44; 194-203

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.