

Kreatech™ FISH probes

Product Information Sheet

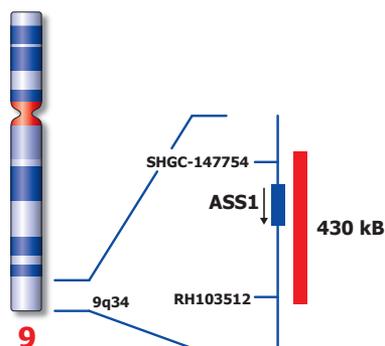
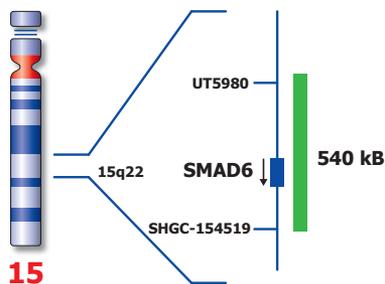
KBI-10508
15q22 / 9q34



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Not to scale

Kreatech™ 15q22 / 9q34 FISH probe

Introduction: The hyperdiploid subtype in Multiple Myeloma is defined by presence of multiple trisomic chromosomes. Gain involving band 15q22 and 9q34 has been described in Multiple Myeloma.

Intended use: The **15q22** specific FISH probe is optimized to detect copy numbers at 15q22. The **9q34** specific FISH region is optimized to detect copy numbers at 9q34.

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 **9q34** 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 / 9q34** FISH probe is designed as a dual-color assay to detect amplifications at 15q22 and 9q34. Amplifications involving the 9q34 region will show three or more red signals and two green signals for the 15q22 region (3+R2G). Amplifications involving the 15q22 region will show three or more green signals and two red signals for the 9q34 region (2R3+G). Amplification involving both critical regions at 9q34 and 15q22 will show three or more red and green signals (3+RG). Two single color red (R) and green (G) signals will identify the normal chromosomes 9 and 15 (2R2G).

	Normal Signal Pattern	Amp(9q34)	Amp(15q22)	Amp(9q34), Amp(15q22)
Expected Signals	2R2G	3+R2G	2R3+G	3+R3+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 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.