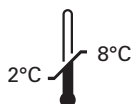


Kreatech™ FISH probes

Product Information Sheet

KBI-10106

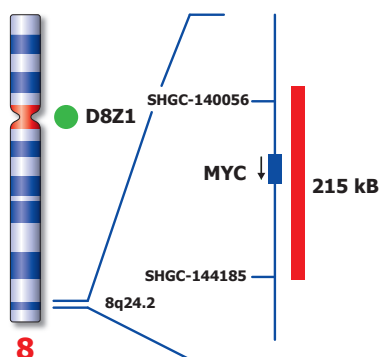
MYC (8q24) / SE 8



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Not to scale

Kreatech™ MYC (8q24) / SE 8 FISH probe

Introduction: MYC gene activation (enhanced expression and/or amplification) may result from chromosomal duplication as well as translocation. Amplification of MYC has been described in many types of solid tumours, such as breast, cervical and colon cancers, as well as in myeloma, non-Hodgkin's lymphoma, gastric adenocarcinomas and ovarian cancer. Multiple copies of the gene may be evidenced in homogeneously staining chromosomal regions and in double minutes.

Intended use: The **MYC (8q24)** specific FISH probe is optimized to detect copy numbers of the MYC gene region at 8q24.
The **Satellite Enumeration (SE) 8** FISH probe is included to facilitate chromosome identification.

Note: This probe should **not** be used to detect translocations involving MYC.

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 **MYC (8q24)** specific FISH probe is direct-labeled with PlatinumBright™550.
Control region 2 (green): The **SE 8** 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 **MYC (8q24) / SE 8 FISH** probe is designed as a dual-color assay to detect amplifications at 8q24. Amplification involving the MYC gene region at 8q24 will show three or more red signals, while the control at the chromosome 8 centromere will provide 2 signals (3+R2G). Two single color red and green signals will identify the normal chromosomes 8 (2R2G).

	Normal Signal Pattern	Amp(8q24)
Expected Signals	2R2G	3+R2G

References: Bentz, M et al, 1995, Blood, 85; 3610-3618
Persons DL et al, 1997, Mod Pathol. 10; 720-727

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.