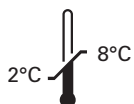


Kreatech™ FISH probes

Product Information Sheet

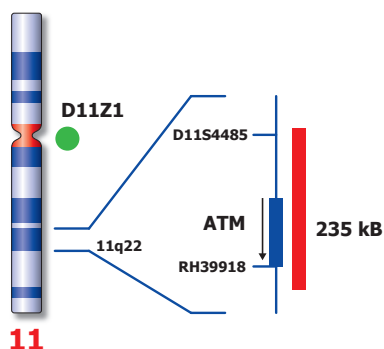
KBI-10103
ATM (11q22) / SE 11



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Not to scale

Kreatech™ ATM (11q22) / SE 11 FISH probe

Introduction: Deletions of the long arm of chromosome 11 (11q) are one of the most frequent structural chromosome aberrations in various types of lymphoproliferative disorders. 11q deletions are found in 20% of the B-CLL tumors as the second most frequent aberration and are predictive of poor survival. A 2- to 3-Mb sized critical genomic region located in bands 11q22.3-q23.1 has been identified and contains the ATM (ataxia telangiectasia mutated), RDX (radixin), and FDX1 (ferredoxin 1) genes.

Intended use: The **ATM (11q22)** specific FISH probe is optimized to detect copy numbers of the ATM gene at region 11q22. The **Satellite Enumeration (SE) 11** FISH probe is included to facilitate chromosome identification.

The probe is recommended to be used in combination with one of the Poseidon 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 (red): The **ATM (11q22)** specific FISH probe is direct-labeled with PlatinumBright™550.
Control region (green): The **SE 11** 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 **ATM (11q22) / SE 11** FISH probe is designed as a dual-color assay to detect deletions at 11q22. Deletions involving the ATM gene region will show one red signal and two green signals at the chromosome 11 centromere control region (1R2G). Two single color red (R) and green (G) signals will identify the normal chromosomes 11 (2R2G)

	Normal Signal Pattern	Del(11q22)
Expected Signals	2R2G	1R2G

References: Boultonwood J, 2001, J. Clin. Pathol., 54; 512-516

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.