Cat Nr/REF: KBI-10103

For professional use only English

Poseidon™ Repeat Free™ ATM (11q22) & SE 11 Control probe

Introduction: Deletions of the long arm of chromosome 11 (11g) are one of the most frequent

structural chromosome aberrations in various types of lymphoproliferative disorders. 11a deletions were found in 20% of the B-CLL tumors as the second most frequent aberration and were predictive of poor survival. A 2- to 3-Mb sized critical genomic region located in bands 11g22.3-g23.1 has been identified and contains the ATM (ataxia telangiectasia mutated), RDX (radixin), and FDX1 (ferredoxin 1) genes.

Intended use: The ATM (11q22) specific DNA Probe is optimized to detect copy numbers of the

ATM gene region at region 11g22.

The Chromosome 11 Satellite enumeration (SE) probe is included to facilitate

chromosome identification.

The probe is recommended to be used in combination with a Poseidon FISH Kit providing necessary reagents to perform FISH (KBI-60002, KBI-60003 or

KBI-60001) for optimal results.

Critical region 1 (red): The ATM (11q22) specific DNA probe is direct-labeled with Platinum Bright 550.

Control region 2 (green): The SE 11 control DNA probe is direct-labeled with Platinum Bright 495.

Poseidon probes are direct-labeled DNA probes provided in a ready-to-use format. Reagent:

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 Poseidon FISH protocol.

Poseidon Repeat Free probes do not contain Cot-1 DNA. Hybridization efficiency is therefore increased and background, due to unspecific binding, is highly

reduced.

Interpretation: The ATM (11g22) 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: Döhner H et al, 1997, Blood, 7; 2516-2522

Boultwood J. 2001. J. Clin. Pathol.. 54: 512-516

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Application Manual

KBI-10103 ON ATM (11q22) / SE 11











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