Cat Nr/REF: KBI-10106

English

For professional use only

Poseidon™ Repeat Free™ C-MYC (8q24) & SE 8 Control probe

Introduction:

C-MYC gene activation (enhanced expression and/or amplification) may result from chromosomal duplication as well as translocation. Amplification of C-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 **C-MYC (8q24)** specific DNA Probe is optimized to detect copy numbers of the C-MYC gene region at 8q24.
The Chromosome 8 Satellite enumeration (SE) probe is included to facilitate chromosome identification.

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

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 **C-MYC (8q24)** specific DNA probe is direct-labeled with Platinum*Bright*550.

Control region 2 (green):

The **SE 8** control DNA probe is direct-labeled with Platinum*Bright*495.

Reagent:

Poseidon 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 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 **C-MYC (8q24)** probe is designed as a dual-color assay to detect amplifications at 8q24. Amplification involving the C-MYC gene region at 8q24 will show three or more red signals, while the control at the chromosome 8 centromere will provide 2 signals (3R2G) Two single color red (R) and green (G) 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

POSEIDON™
REPEAT-FREE™ FISH PROBES

Application Manual

KBI-10106
ON C-MYC (8q24) / SE 8

IVD
for EU only

CE

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2°C 8°C long term storage

KREATECH DIAGNOSTICS

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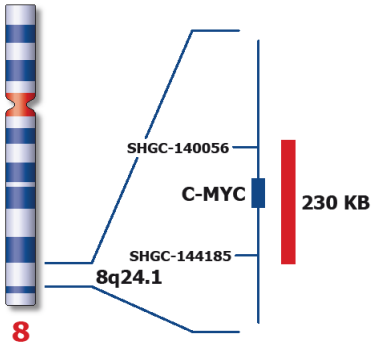
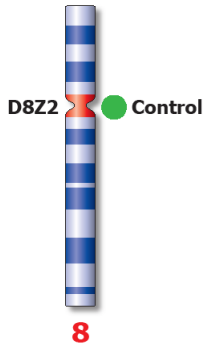
www.poseidondiagnostics.com





Not to scale

Application manual