

Poseidon™ Repeat Free™ GLI (12q13) & SE 12 Control probe

Introduction: Trisomy 12 is a frequent abnormality in chronic lymphocytic leukaemia (CLL). A minimal duplicated region has been identified at 12q13, including the GLI and CDK4 gene regions, which is amplified in additional 5% of CLL patients not showing Trisomy for the whole chromosome 12. Amplification of this region are also described in gliomas and sarcomas.

Intended use: The **GLI (12q13)** specific DNA Probe is optimized to detect copy numbers of the GLI gene region at region 12q13. The Chromosome 12 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 **GLI (12q13)** specific DNA probe is direct-labeled with PlatinumBright550.

Control region 2 (green): The **SE 12** control DNA probe is direct-labeled with PlatinumBright495.

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 **GLI (12q13)** probe is designed as a dual-color assay to detect amplification at 12q13. Amplification involving the GLI gene region at 12q13 will show three or more red signals, while the control at the chromosome 12 centromere will provide 2 signals (3R2G) or 3 signals in case of a Trisomie 12 (3R3G). Two single color red (R) and green (G) signals will identify the normal chromosomes 12 (2R2G).

	Normal Signal Pattern	Amp(12q13)	Amp (12)
Expected Signals	2R2G	3+R2G	3R3G

References: Elkahloun A et al, 1996, Genes Chromosomes Cancer, 17; 205-214
 Dierlamm J et al, 1998, Genes Chromosomes Cancer, 20; 155-166
 Döhner H et al, 1999, J. Molec. Med., 77; 266-281



Application Manual

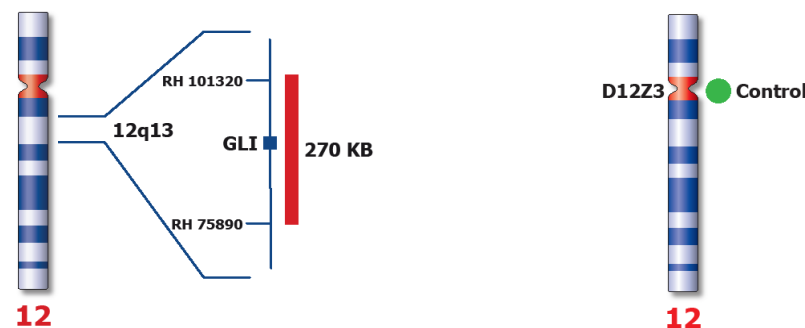
KBI-10104

ON GLI (12q13) / SE 12



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Application manual