

## Poseidon™ Repeat Free™ 6q21 & SE 6 Control probe

**Introduction:** Deletions affecting the long arm of chromosome 6 (6q) are among the most commonly observed chromosomal aberrations in lymphoid malignancies and have been identified as adverse prognostic factor in subsets of tumors. Loss of this band suggests that the critical gene(s) might be a recessive tumour suppressor gene sitting in 6q21.

**Intended use:** The **6q21** specific DNA Probe is optimized to detect copy numbers of 6q at region 6q21. The Chromosome 6 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 **6q21** specific DNA probe is direct-labeled with PlatinumBright550.

**Control region 2 (green):** The **SE 6** 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 **6q21** probe is designed as a dual-color assay to detect deletions at 6q21 by the presence of one red signal, while the control at the chromosome 6 centromere will provide 2 signals (3R2G). Two single color red (R) and green (G) signals will identify the normal chromosomes 6 (2R2G).

	Normal Signal Pattern	Del(6q21)
Expected Signals	2R2G	1R2G

**References:** Stilgenbauer S et al, 1999, Leukemia, 13; 1331-1334  
Zhang, Y, 2000, Genes, Chrom. And Canc. 27; 52-58

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# POSEIDON™

REPEAT-FREE™ FISH PROBES


## Application Manual

KBI-10105  
ON 6q21 / SE 6







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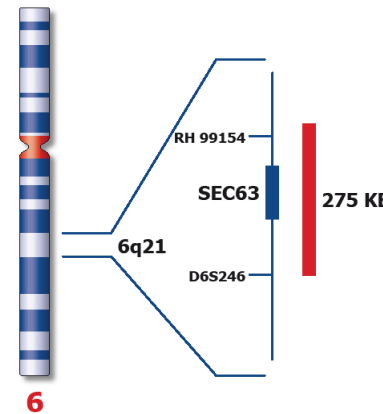


2°C  
long term  
storage

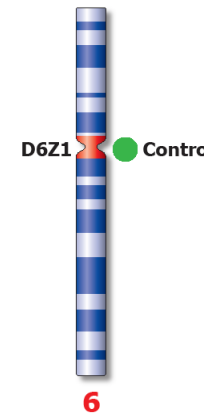


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**6**



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Not to scale