Cat Nr/REF: KBI-10710

For professional use only English

Poseidon™ Repeat Free™ p16 (9p21) & 9g21 Control probe - Optimized for Tissue Hybridization -

Introduction: Two genes, p16 (also known as CDKN2, INK4A, or MTS1) and p15 (also described as INK4B

or MTS2), are found in tandem at chromosome 9p21. Molecular genetic studies have revealed that deletion of the p16 and p15 genes occurs frequently in bladder cancer and other solid

tumors, but also in t-ALL and in about 15% of Non-Hodgkin Lymphomas.

Intended use: The p16 (9p21) specific DNA Probe is optimized to detect copy numbers of the p16 (INK4A)

gene region at region 9p21.

The **9g21** specific region probe is included to facilitate chromosome identification.

The probe is especially developed for use on paraffin sections and 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. For applications on metaphase/interphase spreads, blood smears and bone marrow cells it is advised to use

KBI-10402.

Critical region 1 (red): The p16 (9p21) specific DNA probe is direct-labeled with PlatinumBright550

Control region 2 (green): The 9q21 control DNA probe gene region 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 p16 (9p21) probe is designed as a dual-color assay to detect deletions at 9p21. Deletions

involving the p16 gene region at 9p21 will show one red signals, while the control at the chromosome 9g12 region will provide 2 signals in hemizygous deletions. No red signal, but 2

green signals for 9g12 will be visible in homozygous deletions of 9g21.

Two single color red (R) and green (G) signals will identify the normal chromosomes 9 (2R2G).

	Normal Signal Pattern	Del(9p21)
Expected Signals	2R2G	0-1R2G

References: Drevling et al. 1995. Blood. 86: 1931-1938.

Southgate et al, 1995, Br J Cancer, 72: 1214-1218.

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Application Manual

KBI-10710 ON p16 (9p21) / 9q21 (tissue)











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