Cat Nr/REF: KBI-10605

For professional use only English

Poseidon™ Repeat Free™ MYEOV/IGH t(11:14) Fusion probe

Introduction: Rearrangements of chromosome 11q13 are frequently observed in human cancer,

> usually involving CCND1 (11g13) and IGH (14g32). The transforming gene, MYEOV, mapping 360 kb centromeric to CCND1, was found to be rearranged and activated concomitantly with CCND1 in a subset of t(11;14)(q13;q32) positive multiple myeloma

Intended use: The MYEOV/IGH t(11:14)(q13:q32) specific DNA Probe is optimized to detect the

reciprocal translocation t(11;14) in a dual-color, dual-fusion assay on

metaphase/interphase spreads, blood smears and bone marrow cells.

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 **IGH** (14q32) specific DNA probe is direct-labeled with Platinum *Bright* 550.

Critical region 2 (green): The MYEOV (11a13) 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.

The MYEOV/IGH t(11;14) probe is designed as a dual-fusion probe to detect both Interpretation:

> rearranged chromosomes der(11) and der(14) by two co-localized red/green or yellow fusion signals (F). Single color red (R) and green (G) signals will identify the normal

chromosomes 14 and 11 respectively.

Signal patterns other than those described above may indicate variant translocations. deletions on der(11) or der(14) or other complex rearrangements. Investigators are advised to analyze metaphase cells for the interpretation of atypical signal patterns.

| | Normal Signal Pattern | t(11;14) |
|------------------|-----------------------|----------|
| Expected Signals | 2R2G | 2F1R1G |

References: Janssen JW et al. 2000. Blood. 95: 2691-2698

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Application Manual

KBI-10605 ON MYEOV/IGH t(11;14) Fusion











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