Cat Nr/REF: KBI-10736 For professional use only

English

Poseidon™ MDM4 (1q32) & SE 1 Control probe

Introduction: The MDM4 (MDMX) gene located on 1q32 is a target for amplification in malignant gliomas. MDM4 codes for a MDM2-related protein that can bind to p53 and inhibits p53-mediated transcriptional transactivation.

Intended use: The **MDM4 (1q32)** specific DNA probe is optimized to detect copy numbers of the MDM4 gene region at region 1q32.
The Chromosome 1 Satellite Enumeration (SE) probe at 1qh is included to facilitate chromosome identification.

The probe is recommended to be used in combination with one of the Poseidon Pretreatment kits providing necessary reagents to perform FISH on various sample types for optimal results. (see also www.kreatech.com and look for Kits & reagents)

Critical region 1 (red): The **MDM4 (1q32)** gene region probe is direct-labeled with Platinum*Bright*550.

Control region 2 (green): The **SE 1** control 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.

Interpretation: The **MDM4 (1q32)** probe is designed as a dual-color assay to detect amplification at 1q32. Amplification involving the MDM4 gene region at 1q32 will show several red signals, while the control at the chromosome 1 centromere will provide 2 green signals.
Two single color red (R) and green (G) signals will identify the normal chromosomes 1 (2R2G).

	Normal Signal Pattern	1q32 Amplification
Expected Signals	2R2G	3+R2G

References:

Riemenschneider et al, 1999, Cancer Res. 59 ; 6091-6096
Danovi et al, 2004, Mol.Cell.Bio. 24; 5835-5843

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KREATECH™
POSEIDON™ DNA PROBES

Application Manual

KBI-10736
ON MDM4 (1q32) / SE 1

IVD
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CE

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2°C 8°C long term storage

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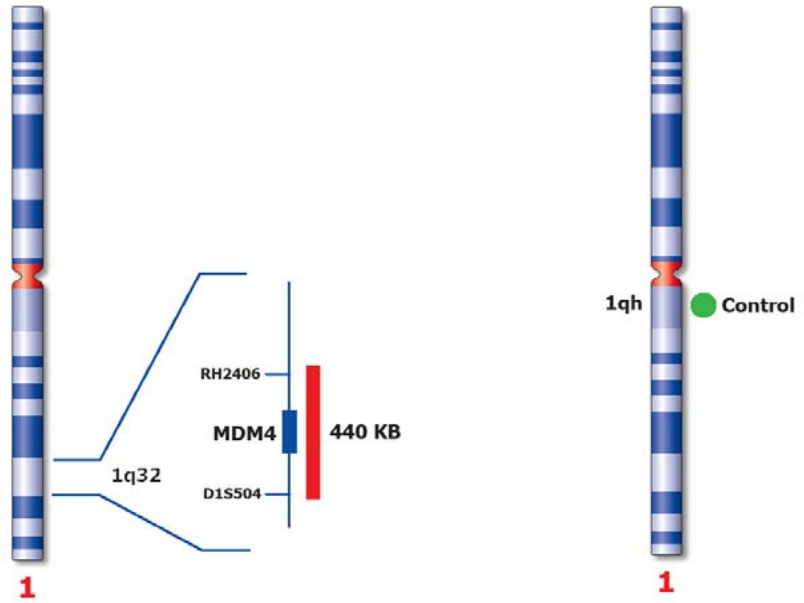

Not to scale