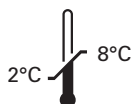


# Kreatech™ FISH probes

## Product Information Sheet

KBI-10736

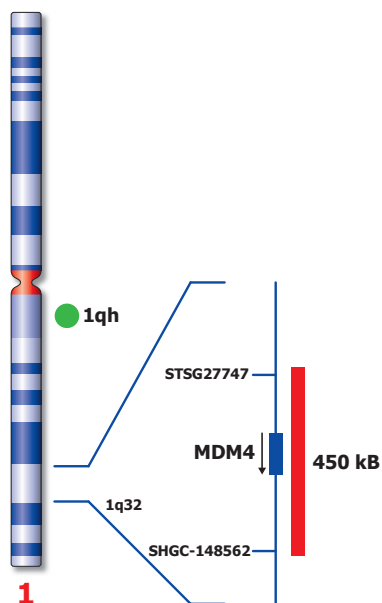
MDM4 (1q32) / SE 1



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Not to scale

## Kreatech™ MDM4 (1q32) / SE 1 FISH probe

**Introduction:** The MDM4 (also known as MDMX) gene located on 1q32 is a target for amplification in malignant gliomas. MDM4 codes for a MDM2-related protein that can bind to TP53 and inhibits TP53-mediated transcriptional transactivation.

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

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

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

**Control region 2 (green):** The **SE 1 (1qh)** FISH probe is direct-labeled with PlatinumBright™495.

**Reagent:** Kreatech 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 Kreatech FISH protocol.**

**Kreatech FISH probes are REPEAT-FREE™ and therefore do not contain Cot-1 DNA. Hybridization efficiency is increased and background, due to unspecific binding, is highly reduced.**

**Interpretation:** The **MDM4 (1q32) / SE 1** FISH probe is designed as a dual-color assay to detect amplifications at 1q32. Amplifications 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

**Warning and precautions:** In case of emergencies check SDS sheets for medical advice. SDS sheets may be obtained by either contacting Leica Technical Support or visiting [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com). DNA probes contain formaldehyde which is a teratogen; do not inhale or allow skin contact. Wear gloves and a lab coat when handling DNA probes. All materials should be disposed of according to your institution's guidelines for hospital waste disposal.

**Reagent Storage and Handling:** Store at 2-8 °C. Reagents should not be used after the expiration date on the vial label.

**TECHNICAL SUPPORT** Technical support is available at [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com) or +31 20 6919181 or via e-mail: [kreatech-support@leicabiosystems.com](mailto:kreatech-support@leicabiosystems.com).

**CUSTOMER SERVICE** Kreatech probes may be ordered through Leica Customer Service +31 20 6919181 or order via e-mail: [purchase.orders@leica-microsystems.com](mailto:purchase.orders@leica-microsystems.com).