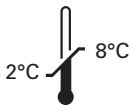


Kreatech™ FISH probes

Product Information Sheet

KBI-10717

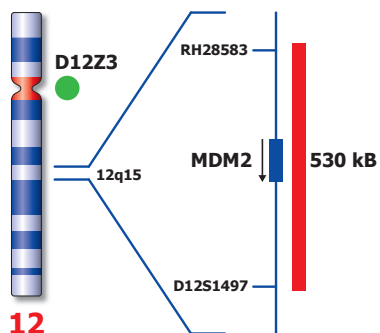
MDM2 (12q15) / SE 12



Kreatech Biotechnology B.V.
Vierweg 20
1032 LG Amsterdam
The Netherlands
www.LeicaBiosystems.com

PI-KBI-10717_D1.1

Published March 2015



Not to scale

Kreatech™ MDM2 (12q15) / SE 12 FISH probe

Introduction: The MDM2 gene has been shown to be abnormally up-regulated in human tumors and tumor cell lines by gene amplification. This gene amplification has been described for 19 tumor types, with the highest frequency observed in soft tissue tumors (20%), osteosarcomas (16%) and esophageal carcinomas (13%).

Intended use: The **MDM2 (12q15)** specific FISH probe is optimized to detect copy numbers of the MDM2 gene region at 12q15. The **Satellite Enumeration (SE) 12** 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 and look for Kits & reagents)

Critical region 1 (red): The **MDM2 (12q15)** gene region probe is direct-labeled with PlatinumBright™550.
Control region 2 (green): The **SE 12** 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 **MDM2 (12q15) / SE 12** FISH probe is designed as a dual-color assay to detect amplifications at 12q15. Amplifications involving the MDM2 gene region at 12q15 will show several red signals, while the control at the chromosome 12 centromere region will provide 2 green signals.
 Two single color red (R) and green (G) signals will identify the normal chromosomes 12 (2R2G).

	Normal Signal Pattern	12q15 Amplification
Expected Signals	2R2G	3+R2G

References: Elkahoun et al, 1996, Genes Chrom. Canc. 17; 205-214
 Momand et al, 1998, Nucleic Acid Res. 26; 3453-3459

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. DNA probes contain formamide 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 or +31 20 6919181 or via e-mail: 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.