

Kreatech™ FISH probes

Product Information Sheet

KI-10011

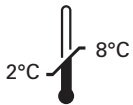
TP53 (17p13) / MPO (17q22) "ISO 17q"

100 µl

DANGER



FORMAMIDE



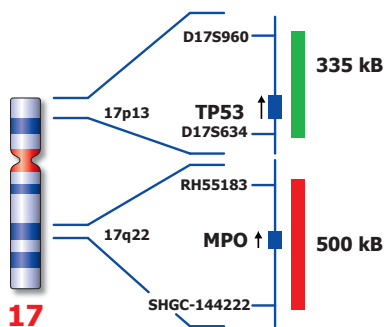
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RUO - Research Use Only

Not for use in diagnostic procedures

PI-KI-10011_D2.1

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Not to scale

Kreatech™ TP53 (17p13) / MPO (17q22) “ISO 17q” FISH probe

Introduction: The **TP53 (17p13) / MPO (17q22) “ISO 17q”** specific FISH probe is optimized to detect the TP53 gene region at 17p13 and MPO gene region at 17q22.

Critical region 1 (red): The **MPO (17q22)** specific FISH probe is direct-labeled with PlatinumBright™550.
Critical region 2 (green): The **TP53 (17p13)** specific 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.

Patterns: The **TP53 (17p13) / MPO (17q22) “ISO 17q”** FISH probe is designed as a dual-color assay to detect deletions and amplifications at 17p13 and 17q22. Deletions involving the TP53 gene region will show one green signal and two red signals at the MPO (17q22) region (2R1G). Gain of 17q involving the MPO gene region at 17q22 will show three or more red signals and two green signals at the TP53 (17p13) region. In cases with an ISO 17q chromosome the signal pattern will show three red signals for MPO (17q22) and one signal for TP53 at 17p13. Two single color red (R) and green (G) signals will identify the normal chromosomes 17 (2R2G).

| | Normal Signal Pattern | Del(17p13) | Amp (17q22) | Iso 17q |
|------------------|-----------------------|------------|-------------|---------|
| Expected Signals | 2R2G | 2R1G | 3+R2G | 3R1G |

References: Scheurlen WG et al, 1999, Genes Chromosomes Cancer, 25; 230-240
 Bown N, 1999, N Engl J Med., 340; 1954-1961

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/service-support/technical-support/ or toll free at 800-248-0123 or via e-mail: kreatech-support@leicabiosystems.com.

CUSTOMER SERVICE Kreatech probes may be ordered through Leica Customer Service toll free at 800-248-0123 or order via e-mail: purchase.orders@leica-microsystems.com.