

Kreatech™ FISH probes

Product Information Sheet

KBI-10709

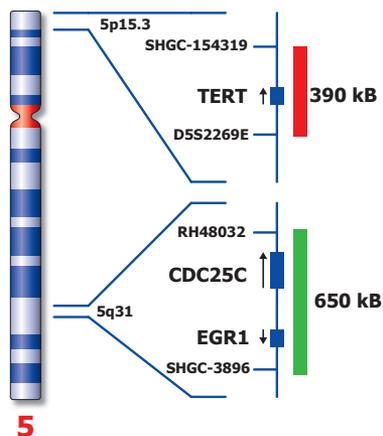
TERT (5p15) / 5q31 (tissue)



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

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Not to scale

Kreatech™ TERT (5p15) / 5q31 (tissue) FISH probe - Optimized for Tissue Hybridization -

Introduction: Gains and amplifications at 5p15 have been documented for various tumor types, including non-small cell lung carcinoma, squamous cell carcinoma of head and neck, and uterine cervical cancer. The gene for the reverse transcriptase component of telomerase (TERT) has been identified to map to 5p15.33 and is a frequent target for amplification during tumorigenesis.

Intended use: The **TERT (5p15)** specific FISH probe is optimized to detect copy numbers of the TERT gene region at region 5p15. The **CDC25C/EGR1 (5q31)** gene region control FISH probe is included to facilitate chromosome identification.

The probe is especially developed for use on FFPE sections. For applications on metaphase/interphase spreads, blood smears and bone marrow cells it is advised to use KBI-10208.

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 (red): The **TERT (5p15)** specific FISH probe is direct-labeled with PlatinumBright™550.
Control region (green): The **5q31** FISH probe gene region 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 **TERT (5p15) / 5q31 (tissue)** FISH probe is designed as a dual-color assay to detect amplifications at 5p15. Amplifications involving the TERT gene region at 5p15 will show several red signals, while the control at the chromosome 5q31 region will provide 2 green signals. Two single color red (R) and green (G) signals will identify the normal chromosomes 5 (2R2G).

	Normal Signal Pattern	Amp(5p15)
Expected Signals	2R2G	3+R2G

References: Bryce et al, 2000, Neoplasia, 2; 197-201.

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 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 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.