

Kreatech™ FISH probes

Product Information Sheet

KBI-10731

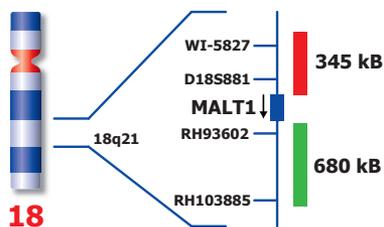
MALT1 (18q21) Break (tissue)



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PI-KBI-10731_D1.1

Published March 2015



Not to scale

Kreatech™ MALT1 (18q21) Break (tissue) FISH probe - Optimized for Tissue Hybridization –

Introduction: Mucosa-associated lymphoid tissue (MALT)-type B-cell lymphoma represents a distinct subtype of B-cell Non-Hodgkin's lymphoma (NHL). The most common cytogenetic rearrangement involves translocation of the MALT1 gene region at 18q21 mainly to BIRC3 (previously known as API2) at 11q21 or IGH at 14q32. A break or split probe FISH assay for MALT is best used to analyze translocation of the MALT1 gene for routine clinical diagnosis.

Intended use: The **MALT1 (18q21) Break (tissue)** FISH probe is optimized to detect translocations involving the MALT1 gene region at 18q21 in a dual-color.

This probe is especially developed for use on FFPE sections.

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)

For applications on metaphase/interphase spreads, blood smears and bone marrow cells it is advised to use KBI-10608 FISH probe.

Critical region 1 (red): The **proximal MALT1** gene region probe is direct-labeled with PlatinumBright™550.

Critical region 2 (green): The **distal MALT1** gene region 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 **MALT1 (18q21) Break (tissue)** FISH probe is designed as a dual-color split probe to detect translocations at 18q21. A break is defined when a red/green or yellow fusion signal (F) splits into separate red and green signals. Only red and green signals which are more than one signal diameter apart from each other are counted as a break. Co-localized red/green or yellow signals identify the normal chromosome(s) 18.

Signal patterns other than those described above may indicate variant translocations or other complex rearrangements. Investigators are advised to analyze metaphase cells for the interpretation of atypical signal patterns.

	Normal Signal Pattern	18q21 Split
Expected Signals	2F	1F1R1G

References: Morgan et al, 1999, Cancer Res, 59; 6205-6213.
Dierlamm et al, 2000, Blood, 96; 2215-2218.

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.