Kreatech™ FISH probes

Product Information Sheet

KBI-10711

KMT2A (11q23) / SE 11

IVD

DANGER

FORMAMIDE

2°C 8°C

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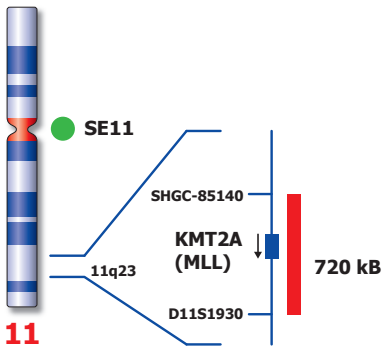

Not to scale

KBI-10711

Kreatech™ KMT2A (11q23) / SE 11 FISH probe

Introduction: Deletions of the long arm of chromosome 11 involving band 11q23 define a subset of high-stage aggressive neuroblastomas.

Intended use: The **KMT2A (11q23)** FISH probe is optimized to detect amplifications or deletions involving the KMT2A (previously known as MLL) gene region at 11q23 in a dual-color assay.
The **Satellite Enumeration (SE) 11** 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 **KMT2A** gene region probe is direct-labeled with Platinum*Bright*™550.
Control region 2 (green): The **SE 11** FISH probe is direct-labeled with Platinum*Bright*™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 **KMT2A (11q23)** FISH probe is designed as a dual-color assay to detect deletions or amplifications involving 11q23. Deletions involving the KMT2A gene region will show one red signal and two green signals at the chromosome 11 centromere control region (1R2G). Amplifications involving the KMT2A gene region at 11q23 will show three or more red signals, while the control at the chromosome 11 centromere will provide 2 green signals (3R2G). Two single color red (R) and green (G) signals will identify the normal chromosomes 11 (2R2G).

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	Del(11q23)	Amp(11q23)
Expected Signals	2R2G	1R2G	3+R2G

References:
Broeker et al, 1996, Blood, 87; 1912-1922.
De Preter et al, 2005, BMC Genomics 6; 97
Thirman et al, 1993, New Engl. J. Med., 329; 909-914.

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.