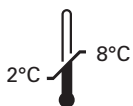


Kreatech™ FISH probes

Product Information Sheet

KBI-10104

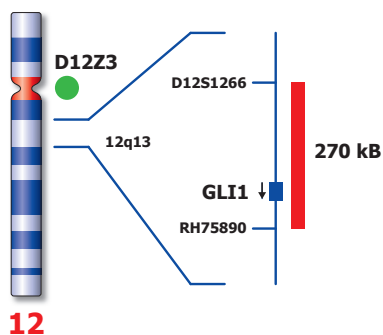
GLI1 (12q13) / SE 12



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

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Not to scale

Kreatech™ GLI1 (12q13) / SE 12 FISH probe

- Introduction:** Trisomy 12 is a frequent abnormality in chronic lymphocytic leukemia (CLL). A minimal duplicated region has been identified at 12q13, including the GLI1 and CDK4 gene regions, which is amplified in additional 5% of CLL patients not showing trisomy for the whole chromosome 12. Amplification of this region is also described in gliomas and sarcomas.
- Intended use:** The **GLI1 (12q13)** specific FISH probe is optimized to detect copy numbers of the GLI1 gene region at region 12q13. 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 (red):** The **GLI1 (12q13)** specific FISH probe is direct-labeled with PlatinumBright™550.
Control region (green): The **SE 12** 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.**
- Interpretation:** The **GLI1 (12q13) / SE 12** FISH probe is designed as a dual-color assay to detect amplification at 12q13. Amplifications involving the GLI1 gene region at 12q13 will show three or more red signals, while the control at the chromosome 12 centromere will provide 2 signals (3R2G) or 3 signals in case of a trisomy 12 (3R3G). Two single color red (R) and green (G) signals will identify the normal chromosomes 12 (2R2G).

	Normal Signal Pattern	Amp(12q13)	Amp(12)
Expected Signals	2R2G	3+R2G	3R3G

- References:** Elkahloun A et al, 1996, Genes Chromosomes Cancer, 17; 205-214
 Dierlamm J et al, 1998, Genes Chromosomes Cancer, 20; 155-166
 Döhner H et al, 1999, J. Molec. Med., 77; 266-281

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.