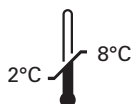


Kreatech™ FISH probes

Product Information Sheet

KBI-40116

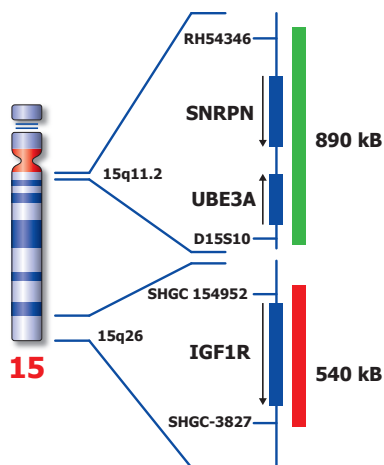
IGF1R (15q26) / 15q11



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PI-KBI-40116_D1.1

Published March 2015



Not to scale

Kreatech™ IGF1R (15q26) / 15q11 FISH probe

Introduction: The type 1 IGF receptor (**IGF1R**) at 15q26 is required for normal embryonic and postnatal growth. Deletions, but also gain of an approximately 5 Mb region including the IGF1R gene has been found to have a profound effect on prenatal and early postnatal growth.

Intended use: The **IGF1R (15q26)** specific FISH probe is optimized to detect copy numbers of the IGF1R gene region at region 15q26. The **15q11** specific region 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 **IGF1R (15q26)** specific FISH probe is direct-labeled with PlatinumBright™550.

Control region 2 (green): The **15q11** 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 **IGF1R (15q26) / 15q11** FISH probe is designed as a dual-color assay to detect amplifications or deletions at 15q26.

Amplifications involving the IGF1R gene region at 15q26 will show several red signals, while the control at the 15q11 control region will provide 2 signals. Two single color red and green signals will identify the normal chromosomes 15 (2R2G).

Deletions involving the IGF1R gene region at 15q26 will show one red signal and two green signals at the 15q11 control region (1R2G). Two single color red and green signals will identify the normal chromosomes 15 (2R2G)

| | Normal Signal Pattern | Amp(15q26) | Del(15q26) |
|------------------|-----------------------|------------|------------|
| Expected Signals | 2R2G | 3+R2G | 1R2G |

References: Faivre et al, 2002, Eur J Hum Genet. 10 ; 699-706.
Okubo et al, 2003, J Clin Endocrinol. Metab 88 ; 5981-5988.

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.