

Kreatech™ FISH probes

Product Information Sheet

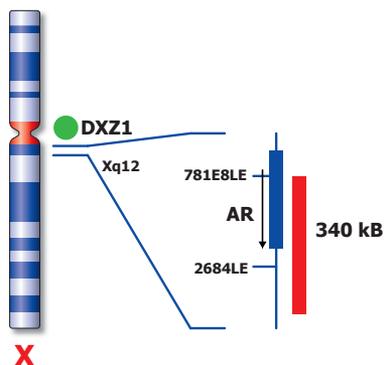
KBI-10720
AR (Xq12) / SE X



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

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Not to scale

Kreatech™ AR (Xq12) / SE X FISH probe

Introduction: The androgen receptor (AR) gene has been identified as a target gene for the Xq12 amplification found in one-third of hormone-refractory prostate cancers. The findings suggest that the AR gene amplification and overexpression is involved in the emergence of prostate cancer.

Intended use: The **AR (Xq12)** specific FISH probe is optimized to detect copy numbers of the AR gene region at Xq12. The **Satellite Enumeration (SE) X** 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 **AR (Xq12)** gene region probe is direct-labeled with PlatinumBright™550.
Control region 2 (green): The **SE X** 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 **AR (Xq12) / SE X** FISH probe is designed as a dual-color assay to detect amplification at Xq12. Amplification involving the AR gene region at Xq12 will show several red signals, while the control at the chromosome X centromere region will provide 2 signals in females and one signal in males.

Two single color red and green signals will identify the normal chromosomes X in females (2R2G). One single color red and green signal will identify the normal chromosome X in males (1R1G).

	Normal Signal Pattern	Amp Xq12
Expected Signals In Females	2R2G	3+R2G
Expected Signals In Males	1R1G	2+R1G

References: Visakorpi T et al, 1995, Nat. Genet. 9; 401-406.
 Koivisto P et al, 1997, Cancer Res. 57 ; 314-319.

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.