

# Kreatech™ FISH probes

## Product Information Sheet

KBI-20030

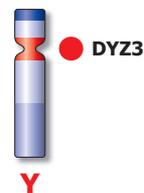
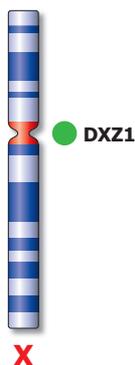
SE X (DXZ1) / SE Y (DYZ3)



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Not to scale

## Kreatech™ SE X (DXZ1) / SE Y (DYZ3) FISH probe

**Introduction:** SE (Satellite Enumeration) FISH probes consist of sets of labeled repetitive satellite DNA sequences isolated from the pericentric heterochromatin of chromosomes. They allow specific chromosome analysis, marker chromosome identification and the detection of aneuploidy. SE probes can be used in all aspects of routine and diagnostic work in genetics and oncology/pathology.

**Intended use:** The SE X (DXZ1) / SE Y (DYZ3) FISH probes are optimized to detect repetitive sequences located in the pericentric heterochromatin of chromosome X and Y.

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](http://www.LeicaBiosystems.com) and look for Kits & reagents)

**Critical region 1 (red):** The SE Y (DYZ3) probe at Yp11.1-q11.1 is direct-labeled with PlatinumBright™550.  
**Critical region 2 (green):** The SE X (DXZ1) probe at Xp11.1-q11.1 is direct-labeled with PlatinumBright™495.

**Reagent:** The SE X and SE Y FISH 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:** SE FISH probes in general will cover the centromeric region of individual or several chromosomes. Gain of chromosomes will be observed by additional signals, loss of chromosomes by lack of the SE specific signal. In normal cells two green signals will be visible for X chromosome in females, while in males one green and one red signal for the X and Y chromosome will be visible.

	Normal Signal Patterns Males	Normal Signal Patterns Females
Expected Signals	1R1G	2G

**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](http://www.LeicaBiosystems.com). DNA probes contain formaldehyde 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](http://www.LeicaBiosystems.com) or +31 20 6919181 or via e-mail: [kreatech-support@leicabiosystems.com](mailto: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](mailto:purchase_orders@leica-microsystems.com).