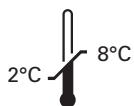


# Kreatech™ FISH probes

## Product Information Sheet

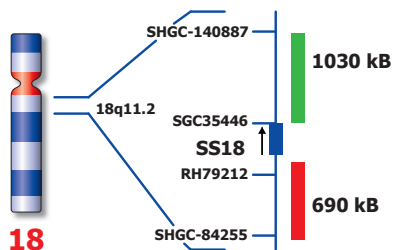
KBI-10713  
SS18 (18q11) Break



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Not to scale

## Kreatech™ SS18 (18q11) Break FISH probe

**Introduction:** A chromosomal aberration involving SS18 (previously known as SYT), may be a cause of synovial sarcoma. The translocation is usually observed as t(X;18)(p11.2;q11.2). The translocation is specifically found in more than 80% of synovial sarcoma. A break or split probe for SS18 is best used to analyze translocation of the SS18 gene on formalin fixed paraffin embedded tissue for routine clinical diagnosis.

**Intended use:** The **SS18 (18q11) Break** FISH probe is optimized to detect translocations involving the SS18 gene region at 18q11 in a dual-color, split assay on FFPE tissue sections.

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 **distal SS18** gene region probe is direct-labeled with PlatinumBright™550.  
**Critical region 2 (green):** The **proximal SS18** gene region 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 **SS18 (18q11) Break** FISH probe is designed as a dual-color split probe for translocations at 18q11. A break is defined when a red/green or yellow fusion signal (F) splits into separate red and green signals. Only red and green signals which are more than one signal diameter apart from each other are counted as a break. Co-localized red/green or yellow signals identify the normal chromosome(s) 18.

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	18q11 Split
Expected Signals	2F	1F1R1G

**References:** Surace et al, 2004, LabInvest., 84; 1185-1192  
 Kawai et al, 1998, NEJM, 338; 153-160

**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 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](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).