

Kreatech™ FISH probes

Product Information Sheet

KBI-10007

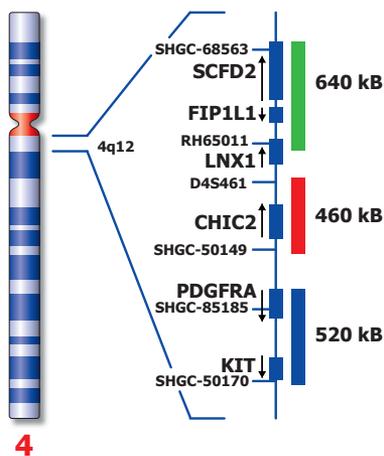
FIP1L1 / CHIC2 / PDGFRA (4q12) Deletion,
Break, Triple-Color



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Not to scale

Kreatech™ FIP1L1 / CHIC2 / PDGFRA (4q12) Deletion, Break, Triple-Color FISH probe

Intended use:

The **FIP1L1 / CHIC2 / PDGFRA** FISH probe is optimized to detect the CHIC2 deletion at 4q12 associated with the FIP1L1/PDGFRA fusion in a triple-color, split assay on metaphase/interphase spreads, blood smears and bone marrow cells. It also detects translocation involving the 4q12 region.

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 **CHIC2 (4q12)** gene region is direct-labeled with PlatinumBright™550.

Critical region 2 (green):

The **FIP1L1 (4q12)** gene region is direct-labeled with PlatinumBright™495.

Critical region 3 (blue):

The **PDGFRA (4q12)** gene regions are direct-labeled in green with PlatinumBright™415.

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 **FIP1L1 / CHIC2 / PDGFRA (4q12) Deletion, Break, Triple-Color** FISH probe is designed as deletion probe, where loss of CHIC2 region is observed as loss of a red signal leaving a green/blue co-localized signal at 4q12. Translocation involving 4q12 will be observed as a separate blue signal and a red/red/green co-localized signal identifying the der(4) chromosome. Single color fusion (F, blue/red/green) signals will identify the normal chromosomes 4.

Signal patterns other than those described above may indicate variant translocations or other complex rearrangements, such as hyperdiploidy for chromosome 4. Investigators are advised to analyze metaphase cells or use additional probes (e.g. SE Chromosome 4) for the interpretation of atypical signal patterns.

	Normal Signal pattern	Del(4q12)	Translocation at 4q12
Expected signals	2F	1F1GB	1F1RG1B

References:

Cools et al, N Engl J Med, 2003, 348, 1201-1214.

Gotlib et al, Blood, 2004, 103, 2879-2891.

Curtis C et al, Brit.J.of Haem., 2007, 138; 77-81

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 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 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.