

Kreatech™ FISH probes

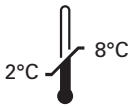
Product Information Sheet

KI-10012
JAK2 (9p24) Break
100 µl

DANGER



FORMAMIDE



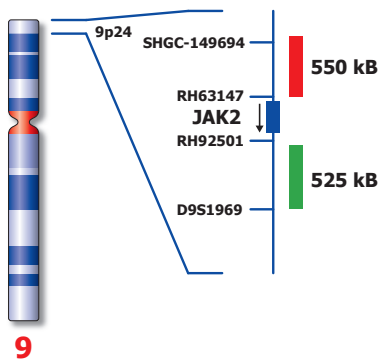
Kreatech Biotechnology B.V.
Vlierweg 20
1032 LG Amsterdam
The Netherlands
www.LeicaBiosystems.com

RUO - Research Use Only

Not for use in diagnostic procedures

PI-KI-10012_D2.1

Published August 2015



Not to scale

KI-10012

Kreatech™ JAK2 (9p24) Break FISH probe

Introduction: The **JAK2 (9p24) Break** FISH probe is optimized to detect translocations involving the JAK2 gene region at region 9p24 in a dual-color, split assay. The JAK2 (9p24) Break FISH probe can not be used to detect point mutations, nor has it been optimized to detect gene amplifications.

Critical region 1 (red): The **distal JAK2** gene region probe is direct-labeled with PlatinumBright™550.
Critical region 2 (green): The **proximal JAK2** 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 **JAK2 (9p24) Break** FISH probe is designed as a dual-color break probe to detect translocations at 9p24. A break is defined as a red/green or yellow fusion signal (F) splits into separate red and green signals. Only red and green signals 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) 9 (2F). Signal patterns other than those described above may indicate variant translocations, complex rearrangements or numerical gains. Investigators are advised to analyze metaphase cells for the interpretation of atypical signal patterns.

	Normal Signal pattern	9p24 Translocation
Expected Signals	2F	1F1R1G

References: Najfeld V et al, 2007, Exp Hematol, 35, 1668-1676
Smith C et al, 2008, Hum Pathol, 39, 795-810
Poitras J et al, 2008, Genes Chromosomes Cancer, 47, 884-889

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/service-support/technical-support/ or toll free at 800-248-0123 or via e-mail: kreatech-support@leicabiosystems.com.

CUSTOMER SERVICE Kreatech probes may be ordered through Leica Customer Service toll free at 800-248-0123 or order via e-mail: purchase_orders@leica-microsystems.com.