Kreatech™ FISH probes

Product Information Sheet

KBI-40114

NF1 (17q11) / MPO (17q22)

IVD

DANGER

FORMAMIDE

2°C 8°C

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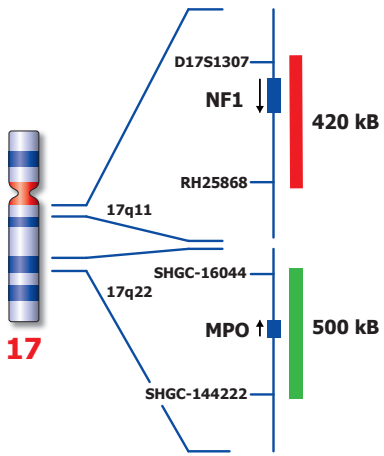
PI-KBI-40114_D1.1

Published March 2015



Not to scale

KBI-40114

Kreatech™ NF1 (17q11) / MPO (17q22) FISH probe

Introduction: Neurofibromatosis type 1 (NF1) is the most common hereditary neurocutaneous disorder and it is associated with an elevated risk for malignant tumors of tissues derived from neural crest cells. NF1 is characterized by a marked variability in expression. A more severe phenotype is frequently observed in patients carrying a large NF1 deletion.

Intended use: The **NF1 (17q11)** region probe is optimized to detect copy numbers of the NF1 gene region at 17q11.2.
The **MPO** region specific FISH probe at 17q22 is included as a control probe.

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 **NF1 (17q11)** specific FISH probe is direct-labeled with Platinum*Bright*™550.
Control region 2 (green): The **MPO (17q22)** specific FISH probe is direct-labeled with Platinum*Bright*™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 **NF1 (17q11) / MPO (17q22)** FISH probe is designed as a dual-color assay to detect deletions at 17q11. Deletions involving the NF1 region will show one red signal and two green signals at the MPO control region (1R2G). Two single color red and green signals will identify the normal chromosomes 17 (2R2G)

	Normal Signal Pattern	Del(17q11)
Expected Signals	2R2G	1R2G

References:
Riva P et al, 2000, Am.J.Hum.Genet. 66; 100-109
Dorschner et al, 2000, Hum.Mol.Genet. 9; 35-46

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.