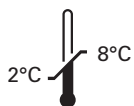


Kreatech™ FISH probes

Product Information Sheet

KBI-10712

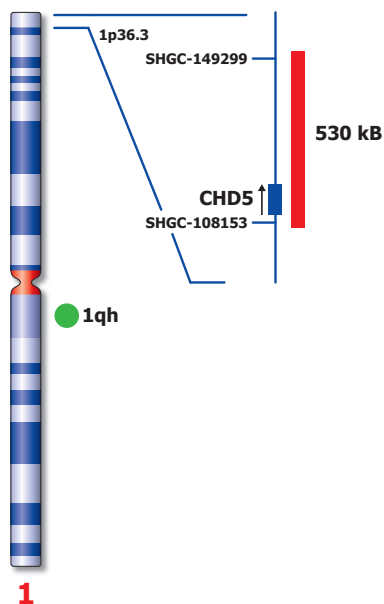
SRD (1p36) / SE 1 (1qh)



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

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Not to scale

Kreatech™ SRD (1p36) / SE 1 (1qh) FISH probe

Introduction: Deletions affecting the short arm of chromosome 1 (1p) are among the most commonly observed chromosomal aberrations in malignancies and have been identified as adverse prognostic factor in subsets of tumors. A new smallest region of consistent deletion (SRD) has been identified in human neuroblastomas located between markers D1S2795 and D1S253*. One or more genes involved in neuroblastoma tumorigenesis or tumor progression are likely contained within this region.

Intended use: The **SRD (1p36)** specific FISH probe is optimized to detect copy numbers of 1p at 1p36. The **Satellite Enumeration (SE) 1 (1qh)** FISH probe is included to facilitate chromosome identification.

Critical region 1 (red): The **SRD (1p36)** specific FISH probe is direct-labeled with PlatinumBright™550.
Control region 2 (green): The **SE 1 (1qh)** specific FISH 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 **SRD (1p36) / SE 1 (1qh)** FISH probe is designed as a dual-color assay to detect deletions at 1p36. Deletions involving the 1p36 region will show one red signal, while the control at the chromosome 1qh region will provide 2 green signals (1R2G). Two single color red and green signals will identify the normal chromosomes 1 (2R2G).

	Normal Signal Pattern	Del(1p36)
Expected Signals	2R2G	1R2G

References: Van Roy N et al, 1997, Cancer Genet. Cytogenet., 97; 135-142
 White P et al, 2005, Oncogene 24; 2684–2694

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.