Kreatech™ FISH probes

Product Information Sheet

KBI-45111

Williams-Beuren ELN (7q11) / 7q22

IVD

DANGER

FORMAMIDE

2°C 8°C

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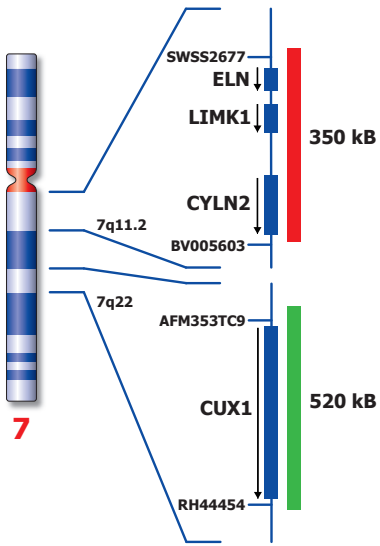

Not to scale

KBI-45111

Kreatech™ Williams-Beuren ELN (7q11) / 7q22 FISH probe

Introduction:

Williams-Beuren is a congenital syndrome of characteristic elfin like facies, mental retardation, growth deficiency, cardiovascular anomalies (supraventricular aortic stenosis), and idiopathic infantile hypercalcaemia. The main cause is a contiguous gene deletion of the Williams-Beuren syndrome critical region (WBSCR) that encompasses the elastin (ELN, previously known as WBS, WS, SVAS) gene at 7q11.

Intended use:

The **Williams-Beuren ELN** region probe is optimized to detect copy numbers of the ELN gene region at 7q11. The **7q22** region specific FISH probe at 7q22 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 **Williams-Beuren ELN** specific FISH probe is direct-labeled with Platinum*Bright*™550.

Control region 2 (green):
The **7q22** 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 **Williams-Beuren ELN / 7q22** FISH probe is designed as a dual-color assay to detect deletions at 7q11. Deletions involving the ELN gene region will show one red signal and two green signals at the 7q22 control region (1R2G). Two single color red and green signals will identify the normal chromosomes 7 (2R2G).

	Normal Signal Pattern	Del(7q11) ELN
Expected Signals	2R2G	1R2G

References:

Mari A et al, 1995, Hum Genet., 96; 444-448
Nickerson et al, 1995, Am.J.Hum.Genet., 56; 1156-1161

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.