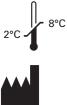


Kreatech[™] FISH probes Product Information Sheet

KBI-40002 RCAN1 (21q22)

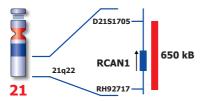




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Kreatech™ RCAN1 (21q22) FISH probe

Intended purpose:	The intended purpose of the devic amniotic cells as a sample. The fluorescence in situ hybridization (The RCAN1 (21q22) FISH probe 21q22 on uncultured amniotic cell	e probes are intended to be (FISH) assay to determine the f is optimized to detect copy nu	used in a semi-quantitative ollowing:
Warnings and Limitations:	This product is not intended for us cells. This test should never be us other results/follow-up testing. Thi chromosome abnormalities that ca	ed as a standalone test, but alv s FISH assay will not detect the	ways in conjunction with
	We do not recommend this produ	ct for the detection of the iAMP	21.
Indication for use:	Trisomy 21 is one of the most common chromosomal abnormalities in live born children and causes Down syndrome, a particular combination of phenotypic features that includes mental retardation and characteristic facies. Molecular analysis has revealed that the 21q22.1-q22.3 region appears to contain the gene(s) responsible for the congenital heart disease observed in Down syndrome.		
	The probe is recommended to be kits providing necessary reagen results. (see also www.LeicaBiosy	ts to perform FISH on variou	is sample types for optimal
Critical region 1 (red):	The RCAN1 (21q22) FISH probe is direct-labeled with Platinum <i>Bright</i> ™550. 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.		
Reagent:			
	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 RCAN1 (21q22) FISH probe is designed as a single-color assay to detect gains of chromosome 21. Trisomy 21 will be detected by three red signals at the 21q22 region. Two single color red (R) signals will identify the normal chromosomes 21 (2R).		
		Normal Signal Pattern	Trisomy 21
	Expected Signals	2R	3R
References:	Korenberg J. et al, 1994, Proc. Nat. Acad. Sci. 91; 4997-5001 Spathas D et al, 1994, Prenat Diagn. 14(11); 1049-1054 Tepperberg et al, 2001, Prenat Diagn 21(4); 293-301		
Safety Data Sheet: In case of emergencies check SDS sheets for medical advice. SDS sheets may be obtained by either contacting Leica Technical Support or visiting <u>www.LeicaBiosystems.com</u> . 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: www.leicaBiosystems.com or +31 20 6919181 or via e-mail: www.leicaBiosystems.com or +31 20 6919181
CUSTOMER SERVICE	Kreatech probes may be ordered through Leica Customer Service +31 20 6919181 or order via e-mail: <u>purchase.orders@leica-microsystems.com</u> .