

# Kreatech™ FISH probes

## Product Information Sheet

KBI-30001-30024

Whole Chromosome Probes



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## Kreatech™ Whole Chromosome FISH probes

**Introduction:** **Whole Chromosome Paints** (chromosome-specific paints) are cocktails of unique sequence probes that recognize the unique sequences spanning the length of a particular chromosome. They provide landmarks for specific chromosomes or parts of chromosomes and are used to study a specific region of the genome. Among other applications, paint probes are used to define the chromosomal origin of derivative segments on translocation chromosomes or supernumerary markers. Several chromosome specific paints labeled with different fluorochromes can be used together to detect multiple target chromosomes.

**Intended use:** **Whole Chromosome** probes are optimized to detect unique sequences spanning the length of individual entire chromosomes in human metaphase spreads.  
**Note: Whole Chromosome Paint Probes are not recommended for interphase analysis.**

The probes are 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](http://www.LeicaBiosystems.com) and look for Kits & reagents)

**Reagent:** Kreatech **Whole Chromosome** FISH probes are direct-labeled DNA probes provided in a concentrated format in a choice of the following fluorophores:

PlatinumBright™495	Green
PlatinumBright™550	Red
PlatinumBright™415	Blue (available on request)

For FISH the probes need to be diluted with the supplied hybridization buffer. For hybridization use 2 parts of probe + 8 parts of Whole Chromosome Hybridization Buffer (WHB). To mix several Whole Chromosome Probes replace 2 parts of WHB with 2 parts of another probe.

**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.**

## KBI-30001-30024

### Interpretation:

**Whole Chromosome Paint** probes are targeted to cover the entire chromosome except the centromeric region (due to the presence of repetitive sequences in this area). Splitting of the specific signal will indicate a translocation to a region on another chromosome or, in cases of marker chromosome, additional signals on this marker will be visible.

Product code	Description	Color	Conc	Nr of test
KBI-30001R/G/B	Whole Chromosome 1	red, green or blue	5x	5
KBI-30002R/G/B	Whole Chromosome 2	red, green or blue	5x	5
KBI-30003R/G/B	Whole Chromosome 3	red, green or blue	5x	5
KBI-30004R/G/B	Whole Chromosome 4	red, green or blue	5x	5
KBI-30005R/G/B	Whole Chromosome 5	red, green or blue	5x	5
KBI-30006R/G/B	Whole Chromosome 6	red, green or blue	5x	5
KBI-30007R/G/B	Whole Chromosome 7	red, green or blue	5x	5
KBI-30008R/G/B	Whole Chromosome 8	red, green or blue	5x	5
KBI-30009R/G/B	Whole Chromosome 9	red, green or blue	5x	5
KBI-30010R/G/B	Whole Chromosome 10	red, green or blue	5x	5
KBI-30011R/G/B	Whole Chromosome 11	red, green or blue	5x	5
KBI-30012R/G/B	Whole Chromosome 12	red, green or blue	5x	5
KBI-30013R/G/B	Whole Chromosome 13	red, green or blue	5x	5
KBI-30014R/G/B	Whole Chromosome 14	red, green or blue	5x	5
KBI-30015R/G/B	Whole Chromosome 15	red, green or blue	5x	5
KBI-30016R/G/B	Whole Chromosome 16	red, green or blue	5x	5
KBI-30017R/G/B	Whole Chromosome 17	red, green or blue	5x	5
KBI-30018R/G/B	Whole Chromosome 18	red, green or blue	5x	5
KBI-30019R/G/B	Whole Chromosome 19	red, green or blue	5x	5
KBI-30020R/G/B	Whole Chromosome 20	red, green or blue	5x	5
KBI-30021R/G/B	Whole Chromosome 21	red, green or blue	5x	5
KBI-30022R/G/B	Whole Chromosome 22	red, green or blue	5x	5
KBI-30023R/G/B	Whole Chromosome X	red, green or blue	5x	5
KBI-30024R/G/B	Whole Chromosome Y	red, green or blue	5x	5

**Note:** Cross-hybridization at the pseudoautosomal region of chromosomes X and Y and at the p-arm of acrocentric chromosomes (13, 14, 15, 21, 22) might be observed.

**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](http://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](http://www.LeicaBiosystems.com) or +31 20 6919181 or via e-mail: [kreatech-support@leicabiosystems.com](mailto: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](mailto:purchase.orders@leica-microsystems.com).