

Kreatech™ FISH probes

Product Information Sheet

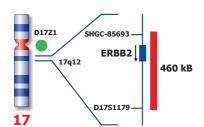
KBI-10701 ERBB2 (17q12) / SE 17





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Kreatech™ ERBB2 (17q12) / SE 17 FISH probe

Introduction: The proto-oncogene ERBB2 (also known as HER-2/neu) resides on chromosome 17q and

encodes a trans-membrane tyrosine kinase growth factor receptor. Amplification of the ERBB2 gene, erbB-2 protein, is found in 20-30% of breast cancers and is also found to be

amplified in prostate carcinoma, gastric cancer and uterus cancer.

Intended use: The ERBB2 (17q12) specific FISH probe is optimized to detect copy numbers of the ERBB2

(Her2/neu) gene region at region 17q12. The Satellite Enumeration (SE) 17 FISH probe is

included to facilitate chromosome identification.

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): Control region 2 (green): The **ERBB2** (17q12) specific FISH probe is direct-labeled with Platinum*Bright*™550. The **SE** 17 specific FISH probe gene region is direct-labeled with Platinum*Bright*™495.

Reagent: Kreatech

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 ERBB2 (17q12) / SE 17 FISH probe is designed as a dual-color assay to detect

amplification at 17q12. Amplification involving the ERBB2 gene region at 17q12 will show several red signals, while the control at the chromosome 17 centromere region will provide 2

green signals.

Two single color red (R) and green (G) signals will identify the normal chromosomes 17

(2R2G).

	Normal Signal Pattern	Amp(17q12)
Expected Signals	2R2G	3+R2G

References:

Pauletti et al, 1996, Oncogene, 13: 63-72

Xing et al, 1996, Breast Cancer Res Treat, 39: 203-212.

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.