Cat Nr/REF: KBI-10701

For professional use only English

Poseidon™ Repeat Free™ ERBB2, Her-2/Neu (17g12) & **SE 17 Control probe**

The proto-oncogene HER-2/neu (c-erbB-2) resides on chromosome 17g and encodes Introduction:

a trans-membrane tyrosine kinase growth factor receptor. Amplification of the HER-2/neu gene, or overexpression of the HER-2/neu protein, is found in 20-30% of breast cancers and is also found to be amplified in prostate carcinoma, gastric cancer and uterus cancer. HER2 has been shown to predict response to specific breast cancer chemotherapeutic regimens, especially when combined with the humanized

monoclonal antibody (MAb) Herceptin.

Intended use: The Her2/neu (17q12) specific DNA Probe is optimized to detect copy numbers of the

Her2/neu (ERBB2) gene region at region 17g12.

The Chromosome 17 Satellite enumeration (SE) probe is included to facilitate

chromosome identification

The probe is recommended to be used in combination with a Poseidon FISH Kit providing necessary reagents to perform FISH (KBI-60002, KBI-60003 or KBI-60001)

for optimal results.

The Her2/Neu (17q12) specific DNA probe is direct-labeled with Platinum Bright 550. Critical region 1 (red):

Control region 2 (green): The SE 17 control DNA probe gene region is direct-labeled with PlatinumBright495.

Poseidon probes are direct-labeled DNA probes provided in a ready-to-use format. Reagent:

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 Poseidon FISH protocol.

Poseidon Repeat Free probes do not contain Cot-1 DNA. Hybridization efficiency is therefore increased and background, due to unspecific binding, is highly

reduced.

Interpretation: The Her2/neu (17q12) probe is designed as a dual-color assay to detect amplification

at 17q12. Amplification involving the Her2/neu gene region at 17q12 will show several red signals, while the control at the chromosome 17 centromere region will provide 2

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

17 (2R2G).

	Normal Signal Pattern	Amp(17q12)
Expected Signals	2R2G	> 5R2G

Slamon D et al. 1988. Science. 240: 1795-1796 References:

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

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Application Manual

KBI-10701 ON ERBB2, Her-2/Neu (17q12) / **SE 17, DC**











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