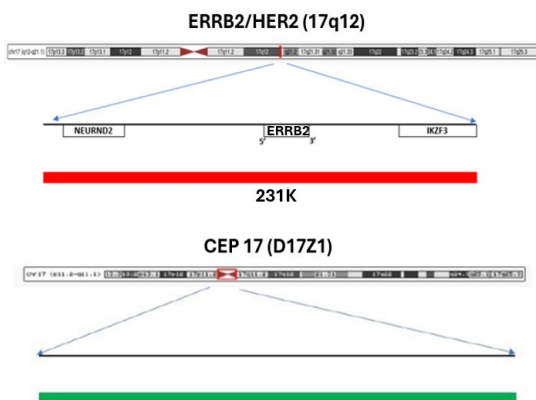


BRIGHTDOM FISH Probes: ERBB2/HER2 (17q12) Amplification



Gene: ERBB2(17q12); Centromere 5'-3' Telomere

Start point: hg38:chr17:39,591,006

End point: hg38:chr17: 39,822,264

Target size: 231K

Dye: Orange

Centromere 17: control

Dye: Green

Introduction: The ERBB2 (previously known as Her-2/neu) (17q12) specific FISH probe is optimized to detect the ERBB2 gene region at 17q12. The CEP 17 FISH probe is included to facilitate chromosome identification.

ERBB2/HER2 (Orange): The ERBB2 (17q12) gene region probe is labeled with an orange dye.

Functionally critical region (Orange): The ERBB2 gene is labeled with an orange dye.

CEP 17 (Green): The centromere (CEP) 17 gene region probe is labeled with a green dye.

Signal Patterns: The ERBB2 (17q12)/CEP 17 FISH probes are designed to detect the ERBB2 gene at 17q12 and centromere 17. Follow the ASCO/CAP guidelines to determine the ERBB2 gene amplification in breast cancer and gastroesophageal cancer.

Reference: Wolff AC, Somerfield MR, Dowsett M, Hammond MEH, Hayes DF, McShane LM, Saphner TJ, Spears PA, Allison KH. Human Epidermal Growth Factor Receptor 2 Testing in Breast Cancer: ASCO-College of American Pathologists Guideline Update. J Clin Oncol. 2023 Aug 1;41(22):3867-3872. doi: 10.1200/JCO.22.02864. Epub 2023 Jun 7. PMID: 37284804.