

# ZytoDot® 2C SPEC ERBB2/D17S122 Probe

RUO

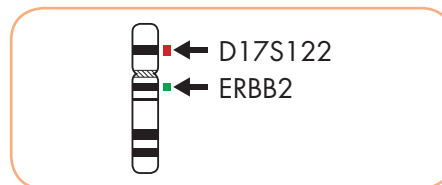
## Background

The ZytoDot® 2C SPEC ERBB2/D17S122 Probe (PD48) is intended to be used for the qualitative detection of human ERBB2 gene amplifications as well as the detection of the D17S122 locus in formalin-fixed, paraffin-embedded specimens by chromogenic *in situ* hybridization (CISH). The probe is intended to be used in combination with the ZytoDot® 2C CISH Implementation Kit (Prod. No. C-3044-10/-40).

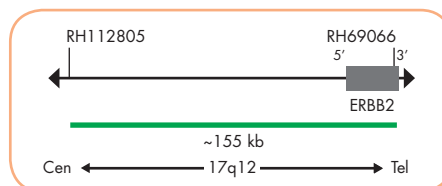
## Probe Description

The ZytoDot® 2C SPEC ERBB2/D17S122 Probe is composed of:

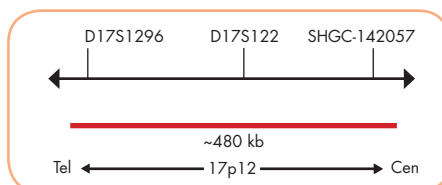
- Digoxigenin-labeled polynucleotides (~1.1 ng/μl), which target sequences mapping in 17q12\*\* (chr17:37,725,661-37,882,844) harboring the ERBB2 gene region.
- Dinitrophenyl-labeled polynucleotides (~1.1 ng/μl), which target sequences mapping in 17p12\*\* (chr17:14,954,785-15,434,017) harboring the D17S122 locus.
- Formamide based hybridization buffer



Ideogram of chromosome 17 indicating the hybridization locations.



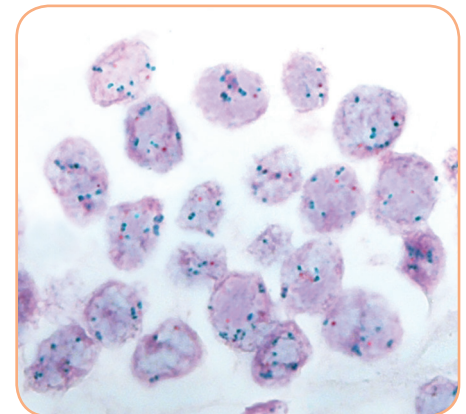
SPEC ERBB2 Probe map (not to scale).



SPEC D17S122 Probe map (not to scale).

## Results

In a normal interphase nucleus, using the ZytoDot® 2C CISH Implementation Kit, two green (ERBB2) and two red (D17S122) signals are expected. In a cell with amplification of the ERBB2 gene locus or polysomy of chromosome 17, multiple copies of the green signal or green signal clusters will be observed.



Example of an aberrant signal pattern: Breast cancer tissue section with amplification of the ERBB2 gene as indicated by multiple green signals in relation to red (D17S122) signals in each nucleus.

Prod. No. Product

C-3068-100 ZytoDot 2C SPEC ERBB2/D17S122 Probe **RUO**

Label Tests\* (Volume)

DIG/DNP 10 (100 μl)

\* Using 10 μl probe solution per test. \*\*According to Human Genome Assembly GRCh37/hg19

**RUO** For Research Use Only. Not for use in diagnostic procedures.