

ZytoDot® 2C SPEC FGFR1 /CEN 8 Probe

RUO

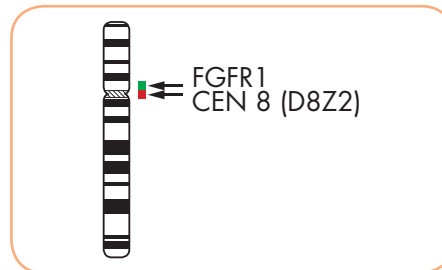
Background

The ZytoDot® 2C SPEC FGFR1/CEN 8 Probe (PD30) is intended to be used for the qualitative detection of human FGFR1 gene amplifications as well as the detection of chromosome 8 alpha satellites 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).

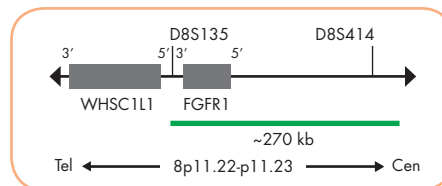
Probe Description

The ZytoDot® 2C SPEC FGFR1/CEN 8 Probe is composed of:

- Digoxigenin-labeled polynucleotides (~1.1 ng/μl), which target sequences mapping in 8p11.22-p11.23** (chr8:38,255,843-38,527,745) harboring the FGFR1 gene region.
- Dinitrophenyl-labeled polynucleotides (~1.1 ng/μl), which target sequences mapping in 8p11.1-q11.1 specific for the alpha satellite centromeric region D8Z2 of chromosome 8
- Formamide based hybridization buffer



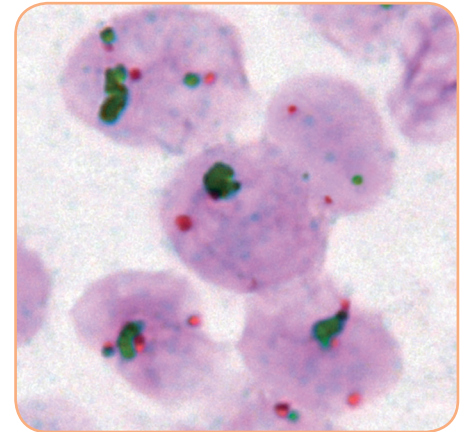
Ideogram of chromosome 8 indicating the hybridization locations.



SPEC FGFR1 Probe map (not to scale).

Results

In a normal interphase nucleus, using the ZytoDot® 2C CISH Implementation Kit two green (FGFR1) and two red (CEN 8) signals are expected. In a cell with an amplification of the FGFR1 gene locus, multiple copies of the green signal or green signal clusters will be observed.



Example of an aberrant signal pattern: Breast carcinoma tissue section with FGFR1 amplification as indicated by large green clusters.

Prod. No. **Product**

C-3050-400 ZytoDot 2C SPEC FGFR1/CEN 8 Probe **RUO**

Label **Tests* (Volume)**

DIG/DNP 40 (400 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.