

ZytoDot® SPEC EGFR Probe

RUO

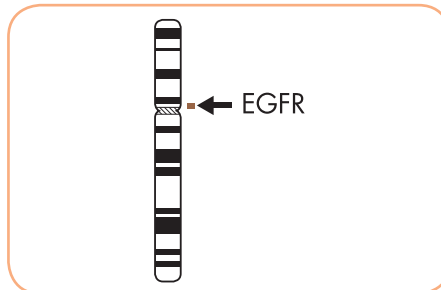
Background

The ZytoDot® SPEC EGFR Probe (PD4) is intended to be used for the qualitative detection of human EGFR gene amplifications in formalin-fixed, paraffin-embedded specimens by chromogenic *in situ* hybridization (CISH). The probe is intended to be used in combination with the ZytoDot® CISH Implementation Kit (Prod. No. C-3018-40).

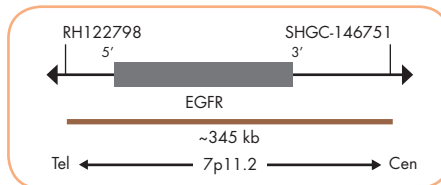
Probe Description

The ZytoDot® SPEC EGFR Probe is composed of:

- Digoxigenin-labeled polynucleotides (~1.8 ng/μl), which target sequences mapping in 7p11.2** (chr7:55,034,991-55,380,617) harboring the EGFR gene region.
- Formamide based hybridization buffer



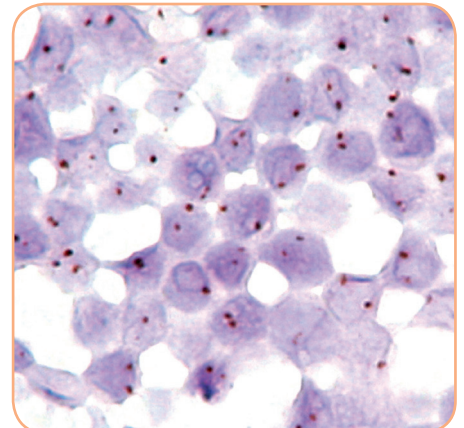
Ideogram of chromosome 7 indicating the hybridization locations.



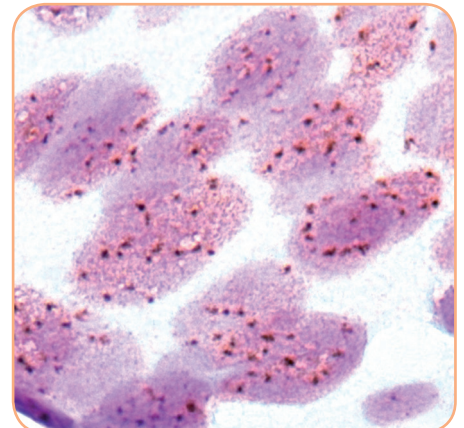
SPEC EGFR Probe map (not to scale).

Results

In normal cells, two distinct dot-shaped signals per nucleus will be observed. Nuclei with amplification of the EGFR gene locus or aneuploidy of chromosome 7 will show multiple dots or large signal clusters.



Normal nuclei each with two EGFR signals.



Example of an aberrant signal pattern: Cancer cells with multiple EGFR signals in sputum sample from a NSCLC patient.

Prod. No.	Product
C-3007-400	ZytoDot SPEC EGFR Probe RUO

Label	Tests* (Volume)
DIG	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.