ZytoDot® SPEC MYC Probe

RUO

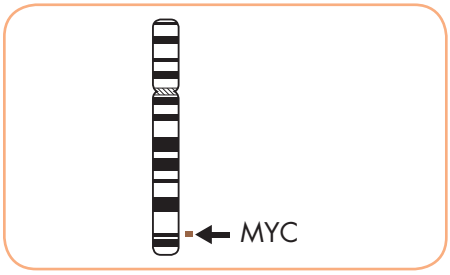
Background

The ZytoDot® SPEC MYC Probe (PD6) is intended to be used for the qualitative detection of human MYC 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).

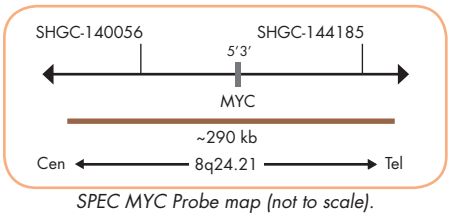
Probe Description

The ZytoDot® SPEC MYC Probe is composed of:

- Digoxigenin-labeled polynucleotides (~1.8 ng/µl), which target sequences mapping in 8q24.21** (chr8:128,596,776-128,887,929) harboring the MYC gene region.
- Formamide based hybridization buffer



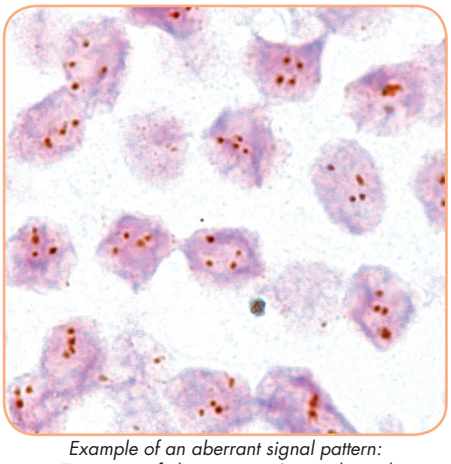
Ideogram of chromosome 8 indicating the hybridization locations.



SPEC MYC Probe map (not to scale).

Results

In normal cells, two distinct dot-shaped signals per nucleus will be observed. Nuclei with amplification of the MYC gene locus or polysomy of chromosome 8 will show multiple dots or large signal clusters.



Example of an aberrant signal pattern: Tetrasomy of chromosome 8 as indicated by four MYC signals per nucleus.

Prod. No.	Product	Label	Tests* (Volume)
C-3013-400	ZytoDot SPEC MYC Probe RUO	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.*