

ZytoDot® SPEC MYCN Probe



Background

The ZytoDot® SPEC MYCN Probe (PD17) is intended to be used for the qualitative detection of amplifications involving the human MYCN gene 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).

The product is intended for professional use only. All tests using the product should be performed in a certified, licensed anatomic pathology laboratory under the supervision of a pathologist/human geneticist by qualified personnel. The probe is intended to be used as an aid to the differential diagnosis of various cancers and therapeutic measures should not be initiated based on the test result alone.

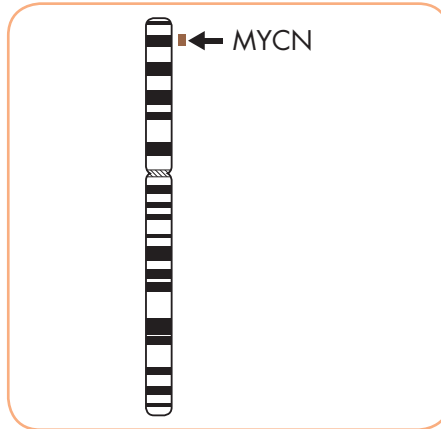
Probe Description

The ZytoDot® SPEC MYCN Probe is composed of:

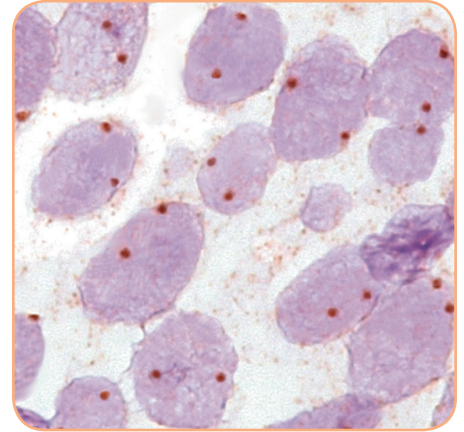
- Digoxigenin-labeled polynucleotides (~1.8 ng/μl), which target sequences mapping in 2p24.3** (chr2:15,846,046-16,213,717) harboring the MYCN gene region.
- Formamide based hybridization buffer

Results

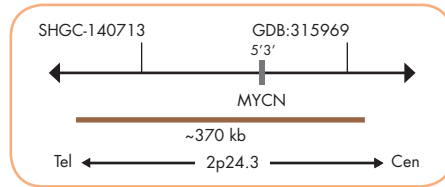
In normal cells, two distinct dot-shaped signals per nucleus will be observed. Nuclei with amplification of the MYCN gene locus or aneuploidy of chromosome 2 will show multiple dots or large signal clusters.



Ideogram of chromosome 2 indicating the hybridization locations.



Normal nuclei each with two MYCN signals.



SPEC MYCN Probe map (not to scale).

Prod. No.	Product	Label	Tests* (Volume)
C-3029-400	ZytoDot SPEC MYCN Probe CE IVD	DIG	40 (400 μl)
Related Products			
C-3018-40	ZytoDot CISH Implementation Kit CE IVD		40
<small>Incl. Heat Pretreatment Solution EDTA, 500 ml; Pepsin Solution, 4 ml; Wash Buffer SSC, 560 ml; PBS/Tween, good for 2000 ml; Blocking Solution, 4 ml; Mouse-anti-DIG, 4 ml; Anti-Mouse-HRP-Polymer, 4 ml; DAB Solution A, 0.3 ml; DAB Solution B, 10 ml; Mayer's Hematoxylin Solution, 20 ml; Mounting Solution (alcoholic), 4 ml</small>			

* Using 10 μl probe solution per test. IVD labeled products are only available in certain countries. All other countries research use only! Please contact your local dealer for more information.

**According to Human Genome Assembly GRCh37/hg19