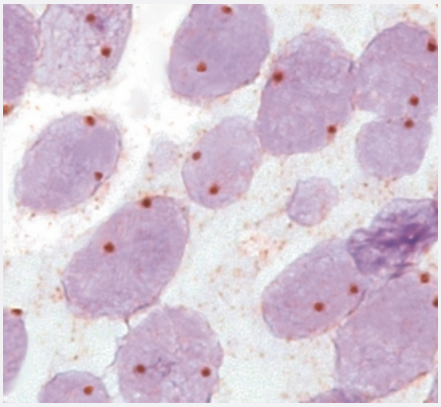
MYCN CISH Probe

Catalog # CG0022 Size 400 uL

Applications



Chromogenic *In Situ* Hybridization (FFPE Tissue)

Normal nuclei each with two MYCN signals

Specification

Product Description	MYCN CISH Probe is designed for the qualitative detection human MYCN gene in formalin-fixed, par affin-embedded tissue or cells by chromogenic *in situ* hybridization (CISH).
Reactivity	Human
Recommend Usage	The product is ready-to-use. No reconstitution, mixing, or dilution is required. Bring probe to room te mperature (18-25°C) and mix briefly before use.
Supplied Product	Reagent Provided: Digoxigenin-labeled oligonucleotides targeting sequences mapping in 2p24.3* (chr2:15,846,046-16, 213,717) harboring the MYCN gene. 2. Formamide based hybridization buffer. *According to Human Genome Assembly GRCh37/hg19
Probe Position	
Regulatory Status	For research use only (RUO)
Storage Instruction	Store at 2-8°C in an upright position. Return to storage conditions immediately after use.

Note	The probe is intended to be used in combination with the CISH Implementation Kit 2 (Catalog #: KA5366), which provides necessary reagents for specimen pretreatment and post-hybridization processing. Hybridization signals of digoxigenin-labeled polynucleotides appear as brown- to dark brown colored distinct dots (MYCN gene). Normal situation: In interphases of normal cells or cells without an amplification involving the MYCN gene locus, two distinct dot-shaped brown signals per nucleus appear. Aberrant situation: In a cell with amplification of the MYCN gene locus or aneuploidy of chromosome 2, multiple copies of the brown signal or brown signal clusters will be observed.
Interpretation of Result	

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Gene Info — MYCN

Entrez GeneID	4613
Gene Name	MYCN
Gene Alias	MODED, N-myc, NMYC, ODED, bHLHe37
Gene Description	v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
Omim ID	164280 164840 602585
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the MYC family and encodes a protein with a basic helix-loop-helix (bHLH) domain. This protein is located in the nucleus and must dimerize with another bHLH protein in order to bind DNA. Amplification of this gene is associated with a variety of tumors, most notably neuroblastomas. [provided by RefSeq
Other Designations	N-myc proto-oncogene protein|neuroblastoma MYC oncogene|neuroblastoma-derived v-myc avian myelocytomatosis viral related oncogene|oncogene NMYC|pp65/67|v-myc avian myelocytomatosis viral related oncogene, neuroblastoma derived|v-myc myelocytomatosis viral

Disease

- Kidney Neoplasms

- Wilms Tumor