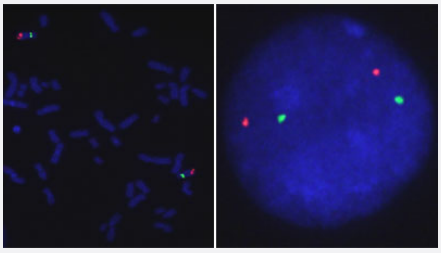
Sm Size

# c-myc/CEN8p FISH Probe

Catalog # FG0065 Size 200 uL, 100 uL

## Applications



### Hybridization position of the probes on the chromosome:

Hybridization position of the probes on the chromosome:

## Specification

| | |
|---|---|
| **Product Description** | Labeled FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization T echnique. (Technology). |
| **Probe 1** | **Name:** c-myc<br>**Size:** Approximately 160kb<br>**Fluorophore:** Texas Red<br>**Location:** 8q24.12-q24.13 |
| **Probe 2** | **Name:** CEN8p<br>**Size:** Approximately 520kb<br>**Fluorophore:** FITC<br>**Location:** 8p11.21 |
| **Probe Gap** | The gap between two probes is approximately 88,100 kb. |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Origin** | Human |
| **Source** | Genomic DNA |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Notice** | We **strongly recommend** the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections. |
| **Regulation Status** | For research use only (RUO) |
| **Quality Control Testing** | Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The l eft image is chromosomes at metaphase, and the right image is an interphase nucleus. |
| **Supplied Products** | DAPI Counterstain (1500 ng/mL ) 125 uL for each 100 uL FISH Probe |
| **Storage Instruction** | Store at 4°C in the dark. |
| **Note** | Hybridization position of the probes on the chromosome:<br>Hybridization position of the probes on the chromosome: |
| **Self-Attestation** | Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening |

## Applications

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

## Gene Info — MYC

| | |
|---|---|
| **Entrez GeneID** | 4609 |
| **Gene Name** | MYC |
| **Gene Alias** | bHLHe39, c-Myc |
| **Gene Description** | v-myc myelocytomatosis viral oncogene homolog (avian) |
| **Omim ID** | 113970 190080 |
| **Gene Ontology** | Hyperlink |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Gene Summary** | The protein encoded by this gene is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene. [provided by RefSeq |
| **Other Designations** | avian myelocytomatosis viral oncogene homolog\|myc proto-oncogene protein\|v-myc avian myelocytomatosis viral oncogene homolog |

## Pathway

- Acute myeloid leukemia
- Bladder cancer
- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Jak-STAT signaling pathway
- MAPK signaling pathway
- Pathways in cancer
- Small cell lung cancer
- TGF-beta signaling pathway
- Thyroid cancer
- Wnt signaling pathway

## Disease

- Alzheimer disease

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Chromosome Aberrations
- Colorectal Neoplasms
- Diabetes Complications
- Disease Progression
- Genetic Predisposition to Disease
- Helicobacter Infections
- Hematologic Diseases
- Hodgkin Disease
- Kidney Failure
- Lung Neoplasms
- Lymphoma
- Lymphoproliferative Disorders
- Metabolic Syndrome X
- Mouth Neoplasms
- Neoplasm Metastasis
- Neoplasms
- Occupational Diseases
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Prostate cancer
- Prostatic Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Pulmonary Disease
- Stomach Neoplasms
- Thyroid Diseases
- Thyroid Neoplasms
- Translocation
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.