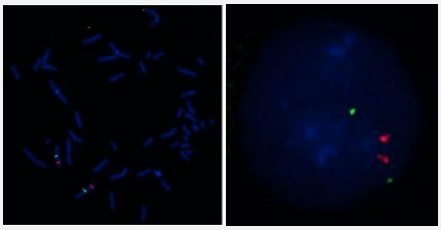
Sm Size

# MLH1/CEN3q FISH Probe

Catalog # FG0149 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:** MLH1<br>**Size:** Approximately 290kb<br>**Fluorophore:** Texas Red<br>**Location:** 3p21.3 |
| **Probe 2** | **Name:** CEN3q<br>**Size:** Approximately 500kb<br>**Fluorophore:** FITC<br>**Location:** 3q12.1 |
| **Probe Gap** | The gap between two probes is approximately 58,100 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 — MLH1

| | |
|---|---|
| **Entrez GeneID** | 4292 |
| **Gene Name** | MLH1 |
| **Gene Alias** | COCA2, FCC2, HNPCC, HNPCC2, MGC5172, hMLH1 |
| **Gene Description** | mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) |
| **Omim ID** | 114030 120436 158320 276300 609310 |
| **Gene Ontology** | Hyperlink |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Gene Summary** | This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). It is a human homolog of the E. coli DNA mismatch repair gene mutL, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Alternatively spliced transcript variants encoding different isoforms have been described, but their full-length natures have not been determined. [provided by RefSeq |
| **Other Designations** | DNA mismatch repair protein Mlh1\|MutL protein homolog 1 |

## Pathway

- Colorectal cancer
- Endometrial cancer
- Mismatch repair
- Pathways in cancer

## Disease

- Adenocarcinoma
- Adenoma
- Anticipation
- Ataxia telangiectasia
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Chromosomal Instability
- Chromosome Deletion
- Chronic Disease
- Colitis
- Colon cancer
- Colonic Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Colonic Polyps
- Colorectal Neoplasms
- Cystadenocarcinoma
- Depressive Disorder
- Digestive System Neoplasms
- Disease Susceptibility
- DNA Damage
- Duodenal Neoplasms
- Endometrial Neoplasms
- Esophageal Neoplasms
- Gastritis
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Genital Neoplasms
- Genomic Instability
- Helicobacter Infections
- Hemochromatosis
- Hepatitis B
- Hodgkin Disease
- Ileal Neoplasms
- Jejunal Neoplasms
- Kidney Failure
- Kidney Neoplasms
- Leukemia
- Liver Neoplasms
- Lung Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Lymphoma
- Lynch Syndrome II
- Malignant melanoma
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Mental Disorders
- Microsatellite Instability
- Neoplasm Invasiveness
- Neoplasm Recurrence
- Neoplasms
- Obesity
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pattern Recognition
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Psychometrics
- Pulmonary Disease
- Rare Diseases
- Rectal Neoplasms
- Recurrence
- Retinal Diseases

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Skin Neoplasms
- Stomach Neoplasms
- Stress
- Stress Disorders
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Urologic Neoplasms
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.