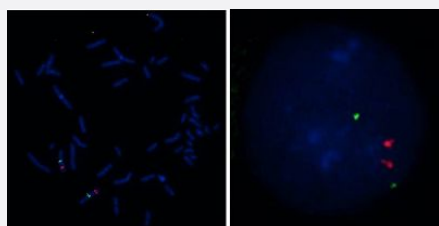


MLH1/CEN3q FISH Probe

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 Technique. (Technology).
Probe 1	Name: MLH1 Size: Approximately 290kb Fluorophore: Texas Red Location: 3p21.3
Probe 2	Name: CEN3q Size: Approximately 500kb Fluorophore: FITC Location: 3q12.1
Probe Gap	The gap between two probes is approximately 58,100 kb

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 left image is chromosomes at metaphase, and the right image is an interphase nucleus.
Supplied Product	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. Hybridization position of the probes on the chromosome.

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

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](#)
- [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](#)

- [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](#)

- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Stress](#)
- [Stress Disorders](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urologic Neoplasms](#)
- [Werner syndrome](#)