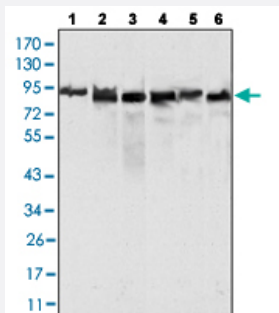


MLH1 monoclonal antibody, clone 4C9C7

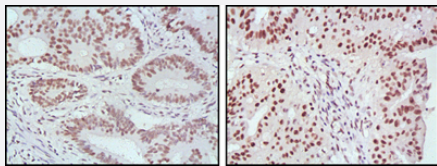
Catalog # MAB15272 Size 100 uL

Applications



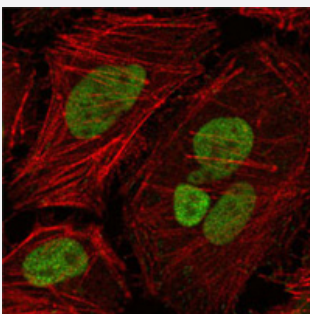
Western Blot (Cell lysate)

Western Blot analysis of Line 1: HeLa, Line 2: MCF-7, Line 3: A549, Line 4: Jurkat, Line5: 2R75 and Line 6: COS cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human rectum cancer (left) and ovarian cancer (right), showing nuclear localization with DAB staining.



Immunofluorescence

Immunofluorescence staining of HeLa cells using MLH1 monoclonal antibody, clone 4C9C7 (Green), showing nuclear localization. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. showing cytoplasmic localization.

Specification

Product Description

Mouse monoclonal antibody raised against partial recombinant human MLH1.

Immunogen

Recombinant protein corresponding to amino acids 381-483 of human MLH1.

Host	Mouse
Reactivity	Human, Monkey
Form	Liquid
Purification	Affinity purification
Recommend Usage	ELISA (1:10000) Immunofluorescence (1:200-1:1000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:1000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascitic fluid (0.03% sodium azide).
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of Line 1: HeLa, Line 2: MCF-7, Line 3: A549, Line 4: Jurkat, Line5: 2R75 and Line 6: COS cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human rectum cancer (left) and ovarian cancer (right), showing nuclear localization with DAB staining.

- Immunofluorescence

Immunofluorescence staining of HeLa cells using MLH1 monoclonal antibody, clone 4C9C7 (Green), showing nuclear localization. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. showing cytoplasmic localization.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MLH1

Entrez GeneID	4292
Protein Accession#	P40692
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](#)