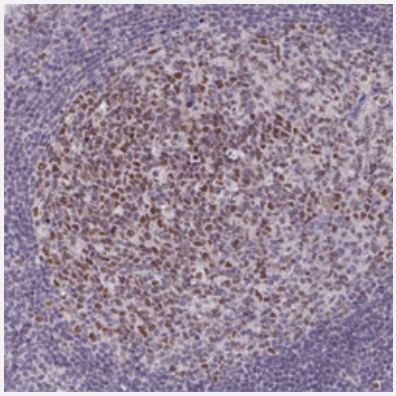
MLH1 polyclonal antibody

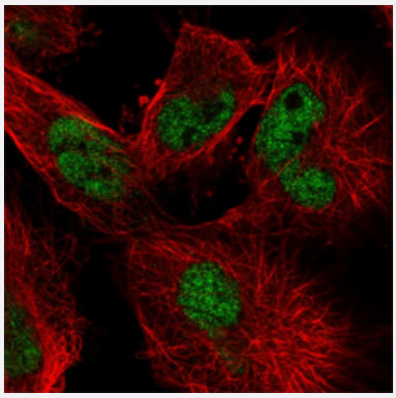
Catalog # PAB31059 Size 100 uL

Applications



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

Immunohistochemical staining of human tonsil shows moderate nuclear positivity in germinal center cells.



Immunofluorescence

Immunofluorescent staining of U-251MG cell line with antibody shows positivity in nucleoplasma (green).

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human MLH1.
Immunogen	Recombinant protein corresponding to human MLH1.
Sequence	TKGTSEMSEKRGPTSSNPRKRHREDSDVEMVEDDSRKEMTAACTPRRRIINLTSVLSLQEEINEQ GHEVLREMLHNHSFVGCVNPQWALAQHQTKLYLLNTTKLSEELFYQILIYDFANFGVLRLSE
Host	Rabbit
Reactivity	Human

Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:20-50) Immunofluorescence (1-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

  Immunohistochemical staining of human tonsil shows moderate nuclear positivity in germinal center cells.

- Immunofluorescence

  Immunofluorescent staining of U-251MG cell line with antibody shows positivity in nucleoplasma (green).

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