

Product Name: MLH1 Mouse Monoclonal Antibody**Catalog #: AMM82388**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	ICC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	84.6kDa

Antigen Information

Gene Name	MLH1
Alternative Names	FCC2; COCA2; HNPCC; hMLH1; HNPCC2
Gene ID	4292.0
SwissProt ID	P40692
Immunogen	Purified recombinant fragment of human MLH1 (AA: 381-483) expressed in E. Coli.

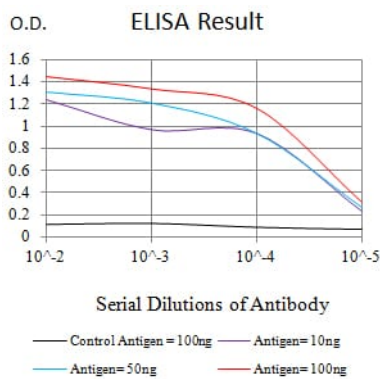
Background

The protein encoded by this gene can heterodimerize with mismatch repair endonuclease PMS2 to form MutL alpha, part of the DNA mismatch repair system. When MutL alpha is bound by MutS beta and some accessory proteins, the PMS2 subunit of MutL alpha introduces a single-strand break near DNA mismatches, providing an entry point for exonuclease degradation. The

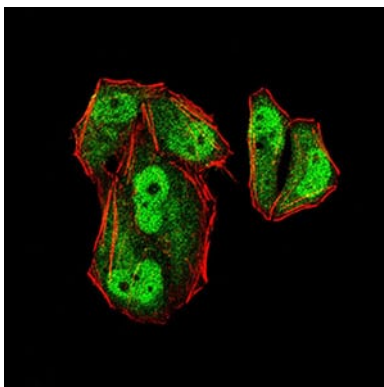
encoded protein is also involved in DNA damage signaling and can heterodimerize with DNA mismatch repair protein MLH3 to form MutL gamma, which is involved in meiosis. This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC).

Research Area

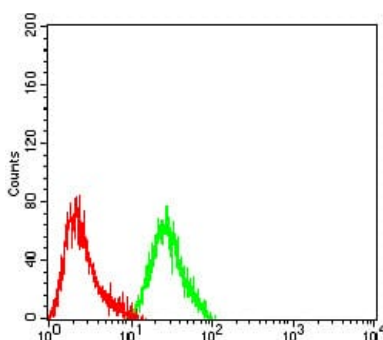
Image Data



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Immunofluorescence analysis of HeLa cells using MLH1 mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin



Flow cytometric analysis of HeLa cells using MLH1 mouse mAb (green) and negative control (red).