



MLH1 Polyclonal Antibody

E90254

Catalog Number: E90254**Amount:** 100ul

Background: Mismatch repair (MMR), a conserved process that involves correcting errors made during DNA synthesis, is crucial to the maintenance of genomic integrity. MLH1 is the human homologue of the E. coli MMR gene mutL. MMR requires recognition of a base mismatch or insertion/deletion loop by a MutS homolog followed by recruitment of a MutL heterodimeric complex consisting of MLH1 and PMS1 (MutL- α), PMS2 (MutL- β) or MLH3 (MutL- γ). Other factors required for MMR in eukaryotes are EXO1, PCNA, RFC, RPA, DNA polymerases and DNA ligase (reviewed in 1). Inactivation of the MLH1 gene causes genome instability and predisposition to cancer (2-5). The MLH1 gene is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC) (6). MLH1 also plays a role in meiotic recombination (7).

Species: Rabbit**Isotype:** IgG

Storage/Stability: Store at -20°C or -80°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonyms: MLH1; COCA2; FCC2; HNPCC; HNPCC2; MGC5172; hMLH1 ;**Immunogen:** Recombinant protein of human MLH1**Purification:** Affinity purification**Reactivity:** H M R**Applications:** WB**Molecular Weight:** 85kDa**Swiss-Prot No. :** P40692**Gene ID:** 4292

References: 1. Modrich, P. (2006) J Biol Chem 281, 30305-9. 2. Seng, T.J. et al. (2008) Br J Cancer 99, 375-82. 3. Harley, I. et al. (2008) Gynecol Oncol 109, 384-7. 4. Mao, G. et al. (2008) J Biol Chem 283, 3211-6. 5. Hubner, R.A. and Houlston, R.S. (2007) J Natl Cancer Inst 99, 1490; author reply 1490-1. 6. Vasen, H.F. (2005) Fam Cancer 4, 219-25. 7. Argueso, J.L. et al. (2003) Mol Cell Biol 23, 873-86.

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