# MSH2Polyclonal Antibody

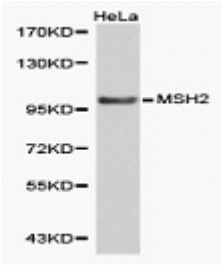
E90064

**Catalog Number:** E90064
**Amount:** 100ul
**Background:** The DNA mismatch repair system (MMR) repairs post-replication DNA, inhibits recombination between non-identical DNA sequences and induces both checkpoint and apoptotic responses following certain types of DNA damage (1). MSH2 (MutS homologue 2) forms the hMutS-α dimer with MSH6 and is an essential component of the mismatch repair process. hMutS-α is part of the BRCA1-associated surveillance complex (BASC), a complex that also contains BRCA1, MLH1, ATM, BLM, PMS2 proteins and the Rad50-Mre11-NBS1 complex (2).Mutations in MSH2 have been found in a large proportion of hereditary non-polyposis colorectal cancer (Lynch Syndrome), the most common form of inherited colorectal cancer in the Western world (3). Mutations have also been associated with other sporadic tumors.
**Species:** Rabbit
**Isotype:** IgG
**Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
**Synonyms:** MSH2;COCA1;FCC1;HNPCC;HNPCC1;LCFS2
**Immunogen:** Fusion protein of human MSH2
**Purification:** Affinity purification
**Reactivity:** H M R
**Applications:** WB IHC IF
**Molecular Weight:** 105kDa
**Swiss-Prot No. :** P43246
**Gene ID:** 4436
**References:** 1. O'Brien, V. and Brown, R. (2006) Carcinogenesis 27, 682-92. 2. Wang, Y. et al. (2000) Genes Dev 14, 927-39. 3. Plotz, G. et al. (2006) J Mol Histol 37, 271-83

WB 1:500 - 1:1000

IHC 1:50 - 1:100

IF 1:20 - 1:50




Western blot analysis of extracts of HeLa cell line, using MSH2 antibody.

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