

## MSH2

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

**Calculated MW:**105kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human MSH2

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

be

**Synonym:**

MSH2;COCA1;FCC1;HNPCC;HNPCC1;LCFS2 ;

**Catalog #:**A1121

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**4436

**Isotype:**IgG

**Swiss Prot:**P43246

**Purity:**Affinity purification

For research use only.

**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- dimer with MSH6 and is an essential component of the mismatch repair process. hMutS- 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.

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