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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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