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**Product Name: MSH6 Mouse Monoclonal Antibody****Catalog #: AMM81068**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ICC,ELISA,FC
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG2a
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	160kDa

**Antigen Information**

<b>Gene Name</b>	MSH6
<b>Alternative Names</b>	GTBP; HSAP; HNPCC5
<b>Gene ID</b>	2956.0
<b>SwissProt ID</b>	P52701
<b>Immunogen</b>	Purified recombinant fragment of human MSH6 expressed in E. Coli.

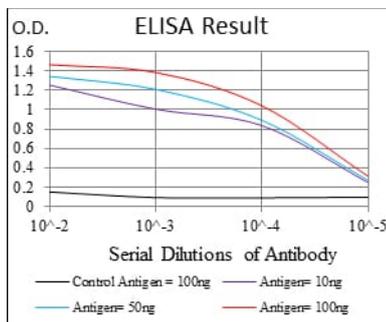
**Background**

This gene encodes a protein similar to the MutS protein. In E. coli, the MutS protein helps in the recognition of mismatched nucleotides, prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein of this gene combines with MSH2 to form a mismatch

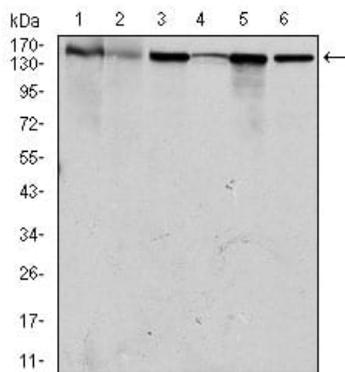
recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene have been identified in individuals with hereditary nonpolyposis colon cancer (HNPCC) and endometrial cancer.

## Research Area

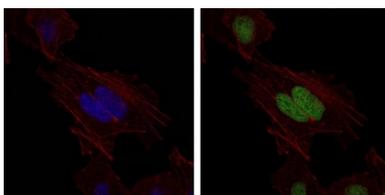
## Image Data



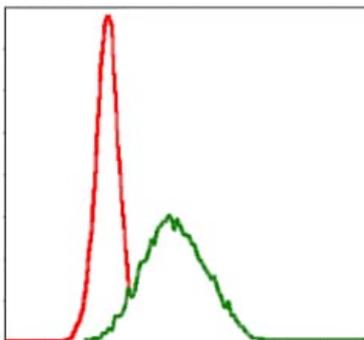
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



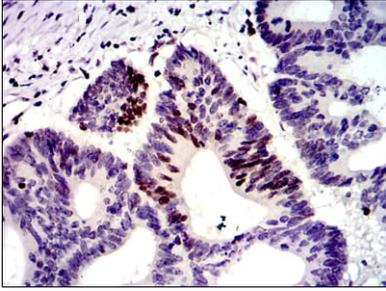
Western blot analysis using MSH6 mouse mAb against HEK293 (1), HCT116 (2), A549 (3), A431 (4), MCF-7 (5) and HepG2 (6) cell lysate.



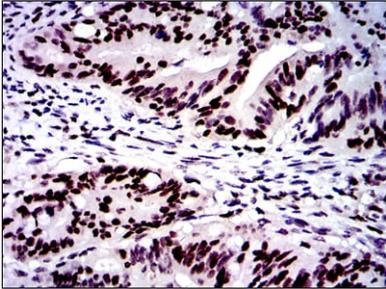
Immunofluorescence analysis of HeLa cells using MSH6 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of MCF-7 cells using MSH6 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using MSH6 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using MSH6 mouse mAb with DAB staining.