

## MSH6 monoclonal antibody

Catalog: MB23026

Host: Mouse

Reactivity: Human

### BackGround:

This gene encodes a member of the DNA mismatch repair MutS family. 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 heterodimerizes 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 may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described.

### Product:

Purified antibody in PBS with 0.05% sodium azide

### Molecular Weight:

152.8kDa

### Swiss-Prot:

P52701

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 IF:1/200 - 1/1000  
FC:1/200 - 1/400

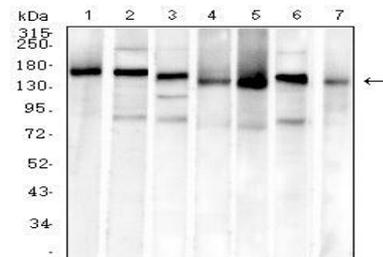
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

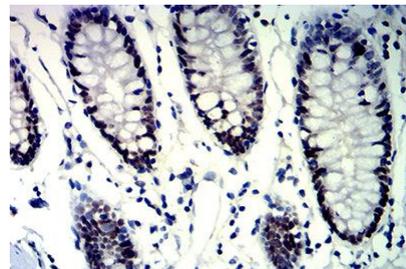
### Isotype:

Mouse IgG2b

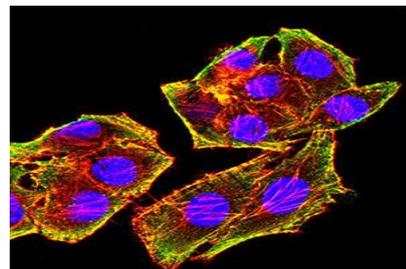
### DATA:



Western blot analysis using MSH6 mouse mAb against SH-SY5Y (1), HeLa (2), PC-3 (3), HCT116 (4), HEK293 (5), A549 (6), and HepG2 (7) cell lysate.



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



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. Secondary antibody from Fisher (Cat#: 35503)

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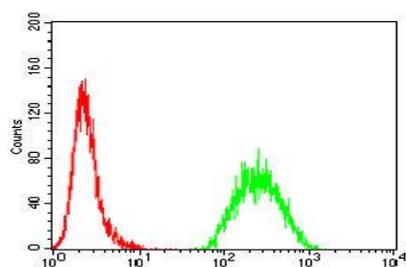
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Flow cytometric analysis of Hela cells using MSH6 mouse mAb (green) and negative control (red).

**Note:**

For research use only, not for use in diagnostic procedure.

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