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**Product Name: MSH2 Mouse Monoclonal Antibody****Catalog #: AMM82633**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Mouse monoclonal Antibody   |
| <b>Host</b>          | Mouse   |
| <b>Application</b>   | WB,IHC,ELISA,FC   |
| <b>Reactivity</b>    | Human   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | Mouse IgG1  |
| <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,ELISA 1:5000-1:20000,FC 1:200-1:400 |
| <b>Molecular Weight</b> | 104.7kDa   |

**Antigen Information**

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | MSH2  |
| <b>Alternative Names</b> | FCC1; COCA1; HNPCC; LCFS2; hMSH2; HNPCC1; MMRCS2                              |
| <b>Gene ID</b>           | 4436.0  |
| <b>SwissProt ID</b>      | P43246  |
| <b>Immunogen</b>         | Purified recombinant fragment of human MSH2 (AA: 2-151) expressed in E. Coli. |

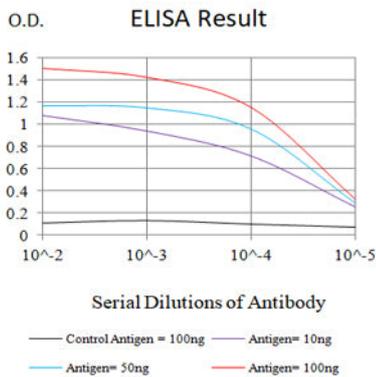
**Background**

This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this

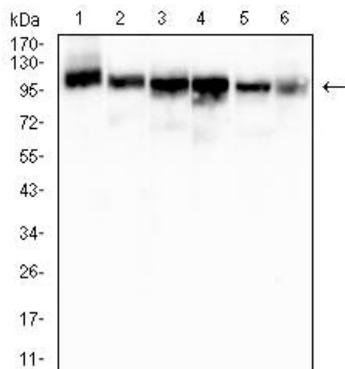
gene.

## Research Area

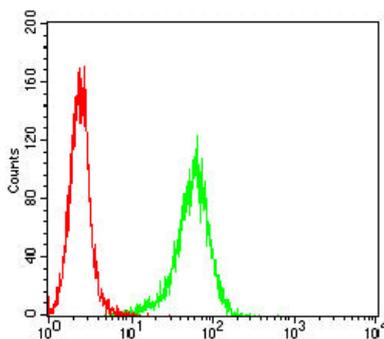
## Image Data



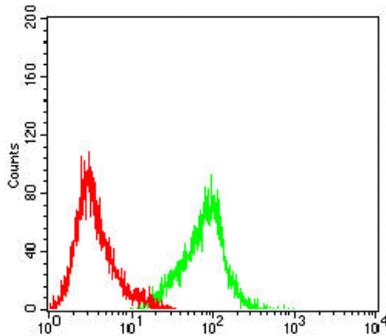
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



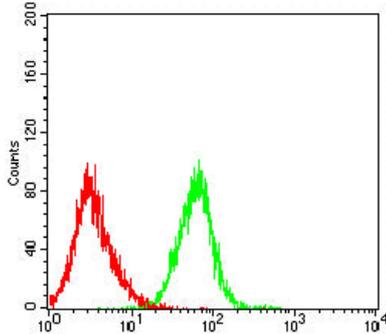
Western blot analysis using MSH2 mouse mAb against MCF-7 (1), A431 (2),K562 (3),HeLa (4), Raji (5),and A549 (6) cell lysate.



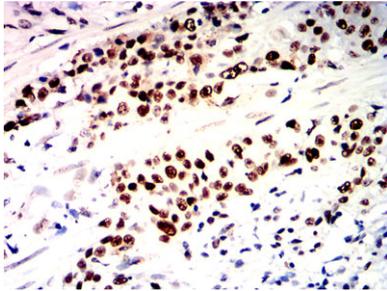
Flow cytometric analysis of HeLa cells using MSH2 mouse mAb (green) and negative control (red).



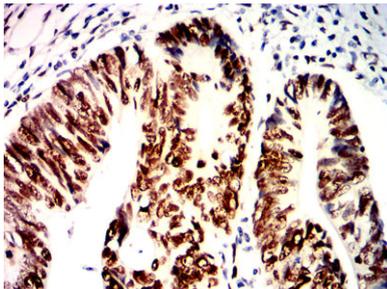
Flow cytometric analysis of K562 cells using MSH2 mouse mAb (green) and negative control (red).



Flow cytometric analysis of Raji cells using MSH2 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using MSH2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human rectal cancer tissues using MSH2 mouse mAb with DAB staining.