

## PMS2 Monoclonal Antibody

### Description

|                                |   |
|--------------------------------|---|
| <b>Product type</b>            | Antibody  |
| <b>Code</b>                    | BT-MCA3401  |
| <b>Host</b>                    | Mouse   |
| <b>Isotype</b>                 | Mouse IgG1  |
| <b>Size</b>                    | 100µL, 50µL   |
| <b>Immunogen</b>               | Purified recombinant fragment of human PMS2 (AA: (431-580)) expressed in E. Coli. |
| <b>Mol wt</b>                  | 95.8kDa   |
| <b>Species reactivity</b>      | Others  |
| <b>Clonality</b>               | Monoclonal  |
| <b>Recommended application</b> | WB,IHC,FCM  |
| <b>Concentration</b>           | N/A   |
| <b>Full name</b>               | N/A   |
| <b>Synonyms</b>                | MLH4;PMSL2;HNPCC4;PMS2CL  |

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein forms heterodimers with the gene product of the mutL homolog 1 (MLH1) gene to form the MutL-alpha heterodimer. The MutL-alpha heterodimer possesses an endonucleolytic activity that is activated following recognition of mismatches and insertion/deletion loops by the MutS-alpha and MutS-beta heterodimers, and is necessary for removal of the mismatched DNA. There is a DQHA(X)2E(X)4E motif found at the C-terminus of the protein encoded by this gene that forms part of the active site of the nuclease. Mutations in this gene have been associated with hereditary nonpolyposis colorectal cancer (HNPCC; also known as Lynch syndrome) and Turcot syndrome.

### Recommended Dilution

WB: 1:500 - 1:2000

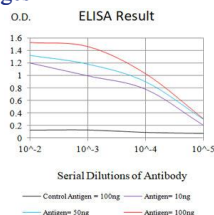
IHC-p: 1:200-1:1000

FCM: 1:200-1:400

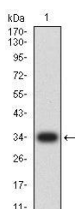
ELISA: 1:10000

Not yet tested in other applications.

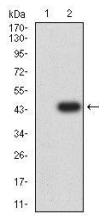
### Images



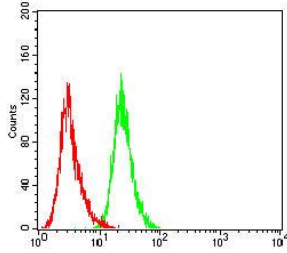
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



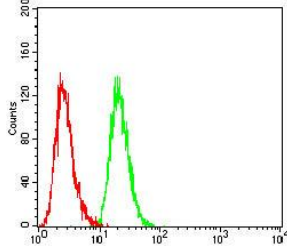
Western blot analysis using PMS2 mAb against human PMS2 (AA: 431-580) recombinant protein. (Expected MW is 35 kDa)



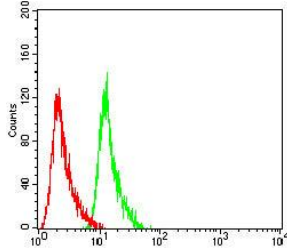
Western blot analysis using PMS2 mAb against HEK293-6e (1) and PMS2 (AA: 431-580)-hIgGFc transfected HEK293-6e (2) cell lysate.



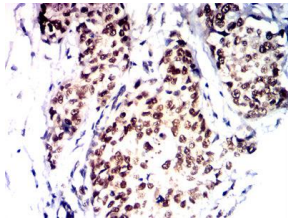
Flow cytometric analysis of A431 cells using PMS2 mouse mAb (green) and negative control (red).



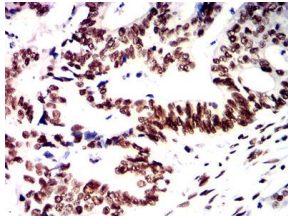
Flow cytometric analysis of Hepg2 cells using PMS2 mouse mAb (green) and negative control (red).



Flow cytometric analysis of NIH3T3 cells using PMS2 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using PMS2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectal cancer tissues using PMS2 mouse mAb with DAB staining.

### Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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