

## Datasheet: VMA00250

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI MSH6        |
| <b>Specificity:</b>  | MSH6                   |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | PrecisionAb Monoclonal |
| <b>Clone:</b>        | 3E1                    |
| <b>Isotype:</b>      | IgG2a                  |
| <b>Quantity:</b>     | 100 µl                 |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                  | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ▪   |    |                | 1/1000             |

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

|                                       |  |
|---------------------------------------|--|
| <b>Target Species</b>                 | Human  |
| <b>Product Form</b>                   | Purified IgG - liquid  |
| <b>Preparation</b>                    | Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites. |
| <b>Buffer Solution</b>                | Phosphate buffered saline.   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> ).  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.5 mg/ml.   |
| <b>Immunogen</b>                      | Purified recombinant fragment of human MSH6 expressed in <i>E. coli</i>                  |

**External Database  
Links**

**UniProt:**

[P52701](#)   [Related reagents](#)

**Entrez Gene:**

[2956](#)   MSH6   [Related reagents](#)

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**Synonyms**

GTBP

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**Specificity**

**Mouse anti Human MSH6 antibody** recognizes the DNA mismatch repair protein MSH6, also known as DNA mismatch repair protein MSH6, G/T mismatch-binding protein, mutS-alpha 160 kDa subunit, sperm-associated protein.

The MSH6 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 MSH6 may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described. (provided by RefSeq, Jul 2013).

Mouse anti Human MSH6 antibody detects a band of 160 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti MSH6 detects a band of approximately 160 kDa in HEK293 cell lysates.

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**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

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**Guarantee**

12 months from date of despatch.

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

**North & South  
America**   Tel: +1 800 265 7376  
Fax: +1 919 878 3751

**Worldwide**   Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739

**Europe**   Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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