

## MLH1 Rabbit Polyclonal Antibody

### Catalog #: EAB14262

| Host/Isotype | Clonality  | Applications | MW (kDa) | Reactivity        |
|--------------|------------|--------------|----------|-------------------|
| Rabbit IgG   | Polyclonal | WB, IHC-P    | 85       | Human, Mouse, Rat |

### Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|                                              |            |
|----------------------------------------------|------------|
| <b>WB</b> (Western Blotting)                 | 1:500-2000 |
| <b>IHC-P</b> (Immunohistochemistry-Paraffin) | 1:50-300   |

### Product Information

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conjugate</b>      | Unconjugate                                                                                                                               |
| <b>Specificity</b>    | MLH1 Rabbit Polyclonal Antibody detects endogenous levels of MLH1 protein.                                                                |
| <b>Purification</b>   | Affinity purification                                                                                                                     |
| <b>Concentration</b>  | 1mg/ml                                                                                                                                    |
| <b>Format</b>         | Liquid                                                                                                                                    |
| <b>Formulation</b>    | In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol                                                                  |
| <b>Shipping</b>       | Gel Pack                                                                                                                                  |
| <b>Storage</b>        | Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles.<br>Aliquots may be stored at +4°C for 1-2 weeks |
| <b>UniProt ID</b>     | <a href="#">P40692</a>                                                                                                                    |
| <b>Entrez-Gene Id</b> | <a href="#">4292</a>                                                                                                                      |

### Product Description

The protein encoded by this gene can heterodimerize with mismatch repair endonuclease PMS2 to form MutL alpha, part of the DNA mismatch repair system. When MutL alpha is bound by MutS beta and some accessory proteins, the PMS2 subunit of MutL alpha introduces a single-strand break near DNA mismatches, providing an entry point for exonuclease degradation. The encoded protein is also involved in DNA damage signaling and can heterodimerize with DNA mismatch repair protein MLH3 to form MutL gamma, which is involved in meiosis. This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC).

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