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# MGMT Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2041a

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | P16455 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 1A11A8 |
| **Isotype** | IgG1 |
| **Calculated MW** | 21646 |
| **Description** | MGMT involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) in DNA.Repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated |
| **Immunogen** | Purified recombinant fragment of human MGMT (AA: 32-210) expressed in E. Coli. |
| **Formulation** | Purified antibody in PBS with 0.05% sodium azide |

## Additional Information

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| **Gene ID** | 4255 |
| **Other Names** | Methylated-DNA--protein-cysteine methyltransferase, 2.1.1.63, 6-O-methylguanine-DNA methyltransferase, MGMT, O-6-methylguanine-DNA-alkyltransferase, MGMT |
| **Dilution** | WB~~1/500 - 1/2000 E~~1/10000 |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | MGMT Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | MGMT |
| **Function** | Involved in the cellular defense against the biological effects of |

O6-methylguanine (O6-MeG) and O4-methylthymine (O4-MeT) in DNA. Repairs the methylated nucleobase in DNA by stoichiometrically transferring the methyl group to a cysteine residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated.

**Cellular Location** Nucleus.

## References

Folia Neuropathol. 2013;51(4):275-82.Fam Cancer. 2013 Sep;12(3):449-58.

## Images

