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# MGMT Antibody
**Purified Mouse Monoclonal Antibody**
**Catalog # AO2041a**

## Specification

### MGMT Antibody - Product Information

| | |
|---|---|
| Application | **E, WB** |
| Primary Accession | P16455 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG1** |
| Calculated MW | **21.6kDa KDa** |

**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

### MGMT Antibody - Additional Information

**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**
E~~1/10000
WB~~1/500 - 1/2000

**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.

### MGMT Antibody - Protein Information

**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.

## MGMT Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture