

**MGMT Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2095a**

**Specification**

**MGMT Antibody - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | <b>E, WB, IF, FC, IHC</b> |
| Primary Accession | <a href="#">P16455</a>    |
| Reactivity        | <b>Human</b>              |
| Host              | <b>Mouse</b>              |
| Clonality         | <b>Monoclonal</b>         |
| Isotype           | <b>IgG1</b>               |
| Calculated MW     | <b>21.6kDa KDa</b>        |

**Description**

MGMT (O-6-methylguanine-DNA methyltransferase) is a protein-coding gene. Diseases associated with MGMT include oligoastrocytoma, and spinal cord astrocytoma. GO annotations related to this gene include DNA-methyltransferase activity and calcium ion binding.

**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  
IF~~1/200 - 1/1000  
FC~~1/200 - 1/400  
IHC~~1/200 - 1/1000

**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 Cytometry](#)
- [Cell Culture](#)