

# MGMT Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2041a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P16455</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	1A11A8
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	21646
<b>Description</b>	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
<b>Immunogen</b>	Purified recombinant fragment of human MGMT (AA: 32-210) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	4255
<b>Other Names</b>	Methylated-DNA--protein-cysteine methyltransferase, 2.1.1.63, 6-O-methylguanine-DNA methyltransferase, MGMT, O-6-methylguanine-DNA-alkyltransferase, MGMT
<b>Dilution</b>	WB~~1/500 - 1/2000 E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	MGMT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MGMT
<b>Function</b>	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

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

## Images

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