

**MGMT Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10634****Specification**

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**MGMT Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P24528</a>
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22244

**MGMT Antibody - Additional Information****Gene ID** 25332**Application & Usage****Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually.****Other Names**

O-6-methylguanine-DNA methyltransferase, O-6-methylguanine-DNA-alkyltransferase, Methylguanine DNA methyltransferase , Methylated DNA protein cysteine methyltransferase

**Target/Specificity**

MGMT

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-MGMT polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****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

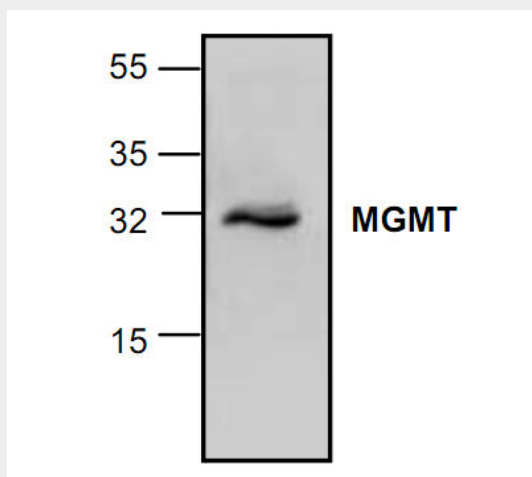
Nucleus.

## 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](#)

## MGMT Antibody - Images



Western blot analysis of MGMT expression in 3T3 cell lysate.

## MGMT Antibody - Background

MGMT (O-6-methylguanine-DNA methyltransferase) is a DNA repair protein that response to DNA damage by removing methyl or alkyl groups from the O6 position of guanine. MGMT protects normal cells from cytotoxic effects and is important in dr  $\mu$ g resistance to alkylating agents.