

**MGMT Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7341b****Specification**

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**MGMT Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P16455](#)**MGMT Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 4255**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7341b](/products/AP7341b) was selected from the C-term region of human MGMT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MGMT Antibody (C-term) Blocking Peptide - 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 (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **MGMT Antibody (C-term) Blocking Peptide - Images**

#### **MGMT Antibody (C-term) Blocking Peptide - Background**

MGMT is involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) in DNA. This protein 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 protein is irreversibly inactivated.

#### **MGMT Antibody (C-term) Blocking Peptide - References**

Kim,J.I., Suh,J.T. Hum. Pathol. 40 (7), 934-941 (2009)Chen,S.P., Chiu,S.C. Genet Test Mol Biomarkers 13 (1), 67-71 (2009)Slupphaug,G., Lettrem,I. Carcinogenesis 13 (10), 1769-1773 (1992)Lee,S.M., Crowther,D. Br. J. Cancer 66 (2), 331-336 (1992)