

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

Synthetic peptide Catalog # BP7341b

#### **Specification**

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 <a href=/products/AP7341b>AP7341b</a> 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.

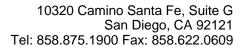
MGMT Antibody (C-term) Blocking Peptide - Protein Information

# 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)





#### **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