

MGMT Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP12883a

Specification

MGMT Antibody (N-term) - Product Information

Application WB, FC, E **Primary Accession** P16455 Reactivity Human **Rabbit** Host Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 21646 Antigen Region 1-30

MGMT Antibody (N-term) - 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

This MGMT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MGMT.

Dilution

WB~~1:1000 FC~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MGMT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MGMT Antibody (N-term) - Protein Information

Name MGMT





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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.

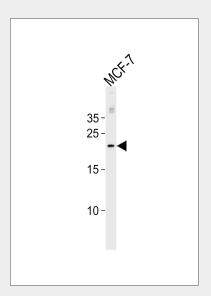
Cellular Location Nucleus.

MGMT Antibody (N-term) - Protocols

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

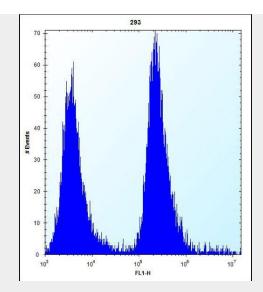
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

MGMT Antibody (N-term) - Images



MGMT Antibody (N-term) (Cat. #AP12883a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the MGMT antibody detected the MGMT protein (arrow).





MGMT Antibody (N-term) (Cat. #AP12883a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MGMT Antibody (N-term) - Background

MGMT is 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.

MGMT Antibody (N-term) - References

Svrcek, M., et al. Gut 59(11):1516-1526(2010)
Palli, D., et al. Mutagenesis 25(6):569-575(2010)
Kim, M., et al. Cancer Sci. 101(11):2436-2442(2010)
Mangoni, M., et al. Int. J. Radiat. Oncol. Biol. Phys. (2010) In press:

Jacob, R., et al. Anticancer Res. 30(7):2561-2566(2010)