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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**
Host	**Rabbit**
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

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

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.

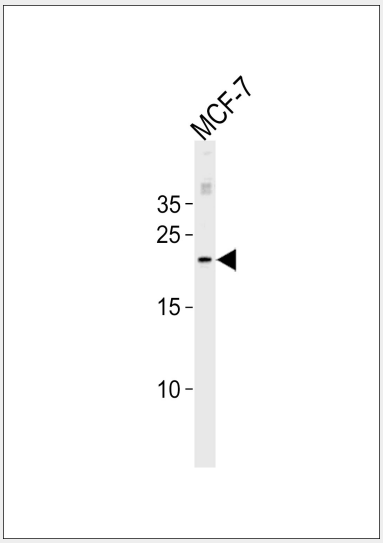
Cellular Location
Nucleus.

MGMT Antibody (N-term) - Protocols

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

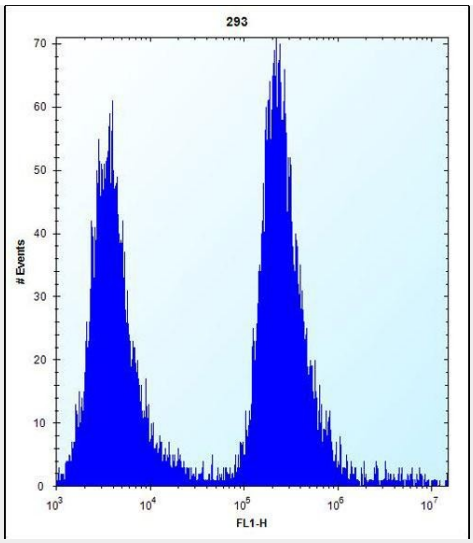
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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).

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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)