

MGMT Antibody

Mouse Monoclonal Antibody (Mab) Catalog # AW5190

Product Information

Application IHC-P, IF, WB **Primary Accession** P16455 Reactivity Human Host Mouse Clonality Monoclonal Calculated MW 22 KDa Isotype IgG1 **Antigen Source** Human

Additional Information

Antigen Region 1-217

Other Names MGMT; Methylated-DNA--protein-cysteine methyltransferase;

Methylated-DNA--protein-cysteine methyltransferase;

6-O-methylguanine-DNA methyltransferase;

Methylated-DNA--protein-cysteine methyltransferase;

O-6-methylguanine-DNA-alkyltransferase

Dilution IHC-P~~1:100~500 IF~~1:25 WB~~1:1000

Target/Specificity Purified His-tagged MGMT protein was used to produced this monoclonal

antibody.

Format Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein G column, 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 is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Background

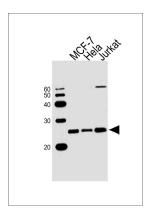
Involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) in DNA. Repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine

residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated.

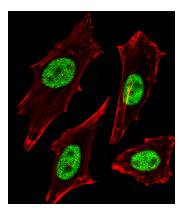
References

Edara S., et al. Carcinogenesis 16:1637-1642(1995). Tano K., et al. Proc. Natl. Acad. Sci. U.S.A. 87:686-690(1990). Rydberg B., et al. J. Biol. Chem. 265:9563-9569(1990). Koike G., et al. J. Biol. Chem. 265:14754-14762(1990). Hayakawa H., et al. J. Mol. Biol. 213:739-747(1990).

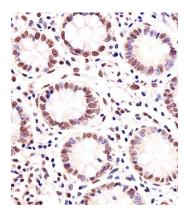
Images



Western blot analysis of lysates from MCF-7,Hela,Jurkat cell line (from left to right), using MGMT Antibody(Cat. #AW5190). AW5190 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.



Fluorescent image of Hela cells stained with MGMT Antibody(Cat#AW5190). AW5190 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded H. small intestine section using MGMT Antibody(Cat#AW5190). AW5190 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.