Mouse anti-Human MGMT Monoclonal Antibody | anti-MGMT antibody

MGMT Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283460	**Mouse**	**Human**	**Western Blot, Immunofluorescence, Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

MGMT; Monoclonal Antibody; MGMT Antibody; Methylated-DNA--protein-cysteine methyltransferase; 6-O-methylguanine-DNA methyltransferase; O-6-methylguanine-DNA-alkyltransferase; anti-MGMT antibody

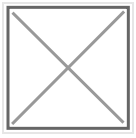
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	888CT22.2.4
Specificity	Purified His-tagged MGMT protein was used to produced this monoclonal antibody.
Form/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.
Concentration	Vial Concentration: 0.27 (varies by lot)
Sequence Length	207
Applicable Applications for anti-MGMT antibody	WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Antigen Type	Recombinant Protein
Crown Antibody	Yes
Antigen Source	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

WB (Western Blot)
MGMT Antibody western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the MGMT antibody detected the MGMT protein (arrow).

IF (Immunofluorescence)
Fluorescent image of Hela cells stained with MGMT Antibody. AAA283460 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).



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded H. small intestine section using MGMT Antibody. AAA283460 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-MGMT antibody	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.
Product Categories/Family for anti-MGMT antibody	Crown Antibodies
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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	530394832
NCBI GeneID	4255
NCBI Accession #	XP_005252739.1
NCBI GenBank Nucleotide #	XM_005252682.2
UniProt Accession #	P16455; Q5VY78
Molecular Weight	21646
NCBI Official Full Name	methylated-DNA--protein-cysteine methyltransferase isoform X2
NCBI Official Synonym Full Names	O-6-methylguanine-DNA methyltransferase
NCBI Official Symbol	MGMT
NCBI Protein Information	methylated-DNA--protein-cysteine methyltransferase
UniProt Protein Name	Methylated-DNA--protein-cysteine methyltransferase
UniProt Gene Name	**MGMT**
UniProt Synonym Gene Names	MGMT
UniProt Entry Name	MGMT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/mgmt-antibody-clone-888ct22-2-4-western-blot-immunofluorescence-immunohistochemistry-elisa/283460