

MGMT Rabbit mAb

Catalog No: #49266



Package Size: #49266-1 50ul #49266-2 100ul

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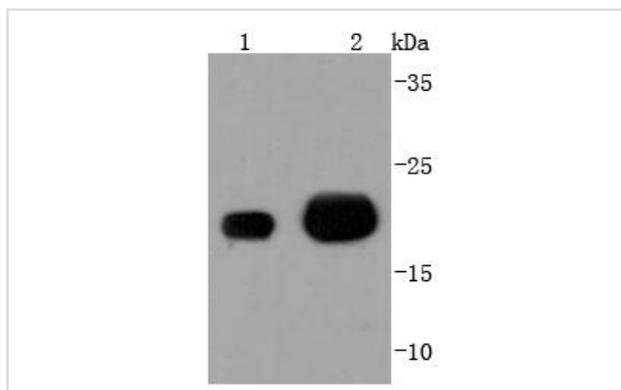
Description

Product Name	MGMT Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ089-6
Purification	ProA affinity purified
Applications	WB, IHC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	6 O methylguanine DNA methyltransferase antibody 6-O-methylguanine-DNA methyltransferase antibody Agat antibody AGT antibody AI267024 antibody EC 2.1.1.63 antibody Methylated DNA protein cysteine methyltransferase antibody Methylated-DNA--protein-cysteine methyltransferase antibody Methylguanine DNA methyltransferase antibody MGC107020 antibody MGMT antibody MGMT_HUMAN antibody O 6 methylguanine DNA alkyltransferase antibody O 6 methylguanine DNA methyltransferase antibody O-6-methylguanine-DNA methyltransferase antibody O-6-methylguanine-DNA-alkyltransferase antibody
Accession No.	Swiss-Prot#:P16455
Calculated MW	22 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

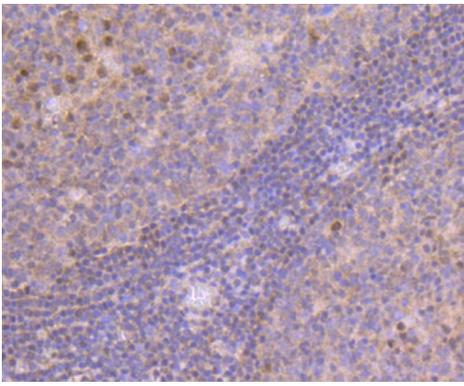
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200

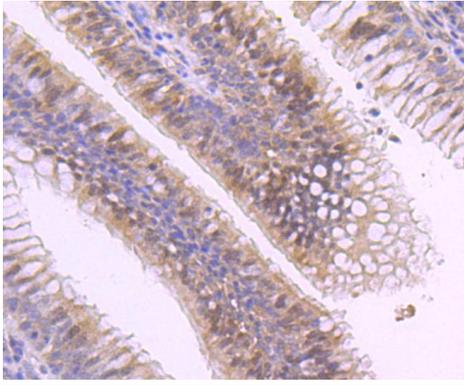
Images



Western blot analysis of MGMT on different lysates using anti-MGMT antibody at 1/1,000 dilution. Positive control:
Lane 1: MCF-7 Lane 2: Hela



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-MGMT antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-MGMT antibody. Counter stained with hematoxylin.

Background

MGMT (O6-methylguanine-DNA methyltransferase) is transcriptionally activated in response to DNA damage and functions to repair mutagenic and cytotoxic O6-alkylguanine lesions caused by carcinogens or cytostatic drugs. MGMT induction by ionising radiation does not occur in p53-deficient mice, suggesting that MGMT induction may require p53. Similarly, MGMT mRNA and protein were shown to be inducible by ionising radiation, only in cell lines that express functional p53, and not in cell lines that do not express wild type p53. In contrast, high MGMT activity was associated with the presence of mutant p53, in a study of oral cancer cell lines. Similarly, MGMT activity was significantly lower in ovarian tumors with wildtype p53 than in tumors with mutant p53, supporting the view that wildtype p53 down-regulates the basal MGMT promoter.

References

1. Viel T et al. Optimizing Glioblastoma Temozolomide Chemotherapy Employing Lentiviral-based Anti-MGMT shRNA Technology. *Mol Ther* 21:570-9 (2013).
2. Viel T et al. Early assessment of the efficacy of temozolomide chemotherapy in experimental glioblastoma using [18F]FLT-PET imaging. *PLoS One* 8:e67911 (2013).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.