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MGMT

Reactivity: Human

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:22kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant Protein of human MGMT

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

ef

Catalog #:A0052

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:4255

Isotype: IgG

Swiss Prot:P16455

Purity: Affinity purification

For research use only.

Background:

MGMT is the primary vehicle for cellular removal of alkyl lesions from the O-6 position of guanine and the O-4 position of thymine. While key to the maintenance of genomic integrity, MGMT also removes damage induced by alkylating chemotherapies, inhibiting the efficacy of cancer treatment [PMID:23065697].MGMT is the primary mechanism for the removal of alkylation damage from the O-6 position of guanine [PMID: 17482892]. The O-6 position of guanine is one of several positions in DNA bases to which alkyl groups are attached in SN1 alkylation reactions, and this repair has been well-characterized in mammalian cells and via MGMT homologs in bacteria and Archaea.[PMID: 10767620]

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