

MGMT antibody

Catalog No: #38149

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Description

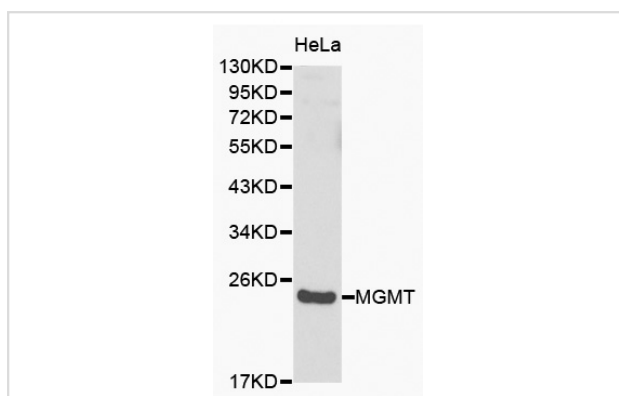
Product Name	MGMT antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total MGMT antibody.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human MGMT.
Target Name	MGMT
Other Names	MGMT
Accession No.	Swiss-Prot#: P16455NCBI Gene ID: 4255
SDS-PAGE MW	22kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

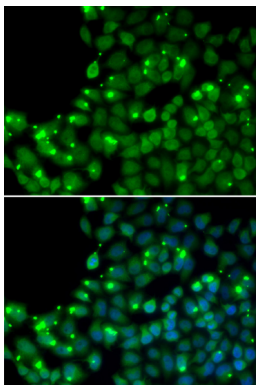
Western blotting: □ 1:500 - 1:2000

Immunofluorescence: □ 1:50 - 1:200

Images



Western blot analysis of HeLa cell lysate using MGMT antibody.



Immunofluorescence analysis of U2OS cell using MGMT antibody. Blue: DAPI for nuclear staining.

Background

MGMT (O-6-methylguanine-DNA methyltransferase) is a DNA repair enzyme that participates in a suicide reaction that specifically removes methyl or alkyl groups from the O(6) position of guanine, restoring guanine to its normal form without causing DNA breaks (1). MGMT protects cells from alkylating toxins, and is an important factor in drug resistance to alkylating therapeutic agents (2,3). It is ubiquitously expressed in normal human tissues (4) and is overexpressed in many types of human tumors, but epigenetically silenced in other tumors. MGMT silencing is a marker associated with poor prognosis, but is a good predictive marker for response to alkylating agent chemotherapy (5).

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