



Rabbit Anti-MGMT antibody

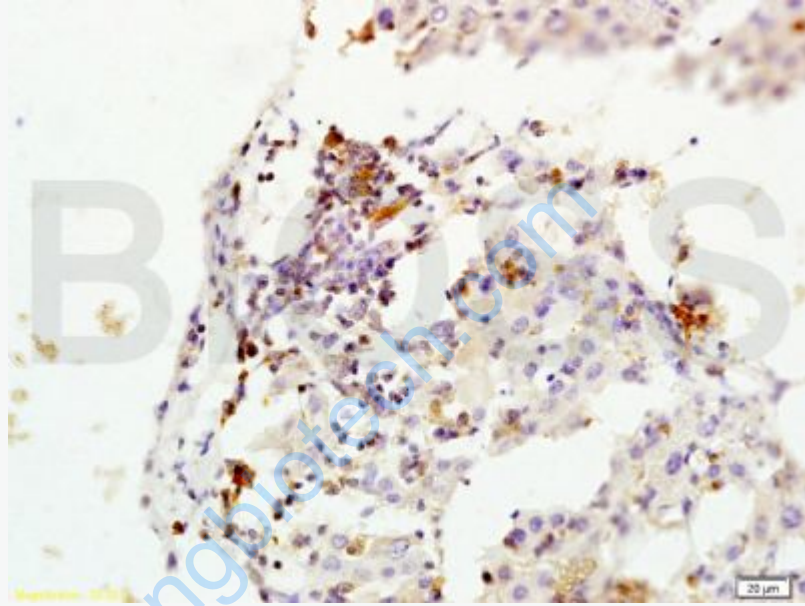
SL1002R

Product Name:	MGMT
Chinese Name:	O6甲基鸟嘌呤DNA甲基转移酶抗体
Alias:	6 O methylguanine DNA methyltransferase; Agat; AGT; AI267024; EC 2.1.1.63; Methylated DNA protein cysteine methyltransferase; Methylguanine DNA methyltransferase; MGC107020; MGMT: O-6 methylguanine DNA methyltransferase; O 6 methylguanine DNA alkyltransferase; O 6 methylguanine DNA methyltransferase; O-6 methylguanine DNA alkyltransferase; O-6-methylguanine-DNA methyltransferase; O6 methylguanine DNA methyltransferase; MGMT HUMAN.
文献引用 PubMed :	Specific References(1) SL1002R has been referenced in 1 publications. [IF=3.61]Oláh, Zita, et al. "Proteomic Analysis of Cerebrospinal Fluid in Alzheimers Disease: Wanted Dead or Alive." Journal of Alzheimers Disease (2014). WB;Human. PubMed:25428253
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MGMT:101-207/207
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>MGMT (O6 methylguanine DNA methyltransferase) is an enzyme that transfers methyl groups from O(6) methylguanine, and other methylated moities of DNA, to a cysteine residue in itself, thus repairing DNA damage caused by alkylation in a single step reaction. This is a suicide reaction as the enzyme is irreversibly inactivated. MGMT prevents mutagenesis and malignant transformation, and also provides resistance to chemotherapy with alkylating agents among cancer patients.</p> <p>Function: 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.</p> <p>Subcellular Location: Nucleus.</p> <p>Similarity: Belongs to the MGMT family.</p> <p>SWISS: P16455</p> <p>Gene ID: 4255</p> <p>Database links: Entrez Gene: 4255Human Omim: 156569Human SwissProt: P16455Human Unigene: 501522Human</p> <p>Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.</p> <p>O-6-methylguanine-DNA methyltransferase(MGMT)O-6-甲基鸟嘌呤-DNA-甲基转移酶:是广泛存在于细菌到哺乳动物机体中的一种独特DNA修复酶, MGMT</p>

是一种DNA修复酶, 是突变和癌变的抑制因子。它对烷化剂导致的DNA损伤有修复作用。

MGMT是突变和癌基因的抑制因子。研究表明MGMT水平与恶性Tumour的发生、进展、浸润、预后及治疗有密切关系。细胞中MGMT水平与其所能耐受的DNA损伤密切相关。一般来讲, 低水平表达MGMT的Tumour可以应用烷化剂药物治疗; 反之则为耐药。在正常组织中, 肝脏高表达; 脑组织和骨髓低水平表达。

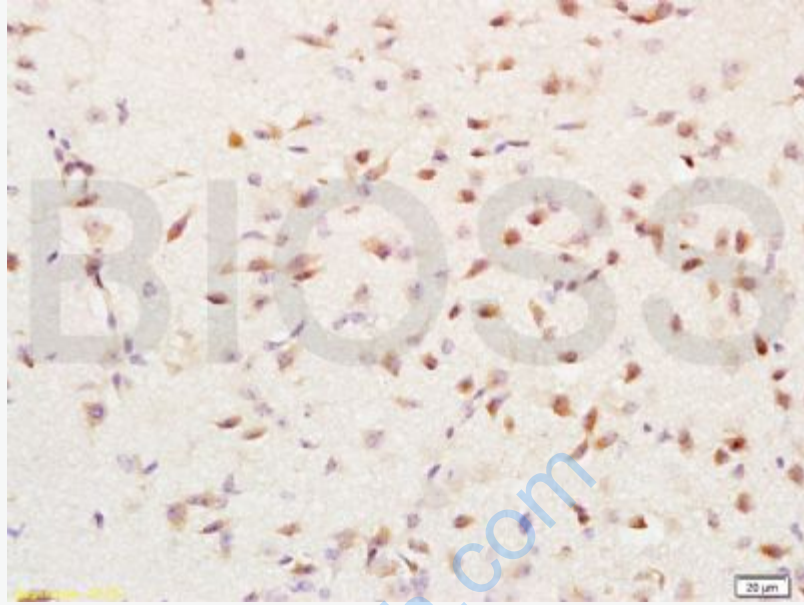


Picture:

Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-MGMT Polyclonal Antibody, Unconjugated(SL1002R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-MGMT Polyclonal Antibody, Unconjugated(SL1002R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining