anti-Human MGMT Polyclonal Antibody | anti-MGMT antibody

Anti-MGMT Antibody

CATALOG #	REACTIVITY	APPLICATIONS
AAA46549	**Human**	**Immunocytochemistry, Immunohistochemistry, Western Blot**

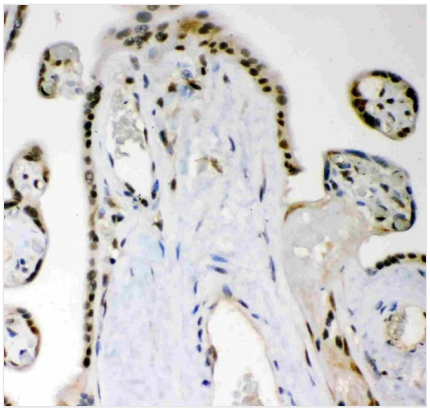
PRODUCT SYNONYMS

MGMT; Polyclonal Antibody; Anti-MGMT Antibody; Methylated-DNA--protein-cysteine methyltransferase ; 6 O methylguanine DNA methyltransferase; 6-O-methylguanine-DNA methyltransferase; Agat; AGT; AI267024; Methylated DNA protein cysteine methyltransferase; Methylated-DNA--protein-cysteine methyltransferase; Methylguanine DNA methyltransferase; MGC107020; MGMT_HUMAN; O 6 methylguanine DNA alkyltransferase; O 6 methylguanine DNA methyltransferase; O-6-methylguanine-DNA methyltransferase; O-6-methylguanine-DNA-alkyltransferase; anti-MGMT antibody

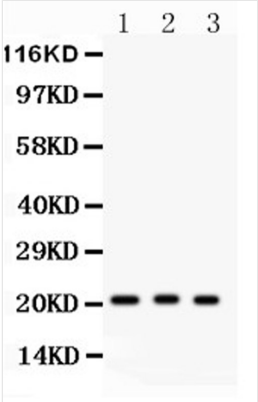
PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	207
Applicable Applications for anti-MGMT antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human MGMT recombinant protein (Position: D2-N207). Human MGMT shares 70% and 69% amino acid (aa) sequence identity with mouse and rat MGMT, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemisry)
Anti- MGMT Picoband antibody, AAA46549, IHC(P)IHC(P): Human Placenta Tissue



WB (Western Blot)
Anti- MGMT Picoband antibody, AAA46549, Western blottingAll lanes: Anti MGMT (AAA46549) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 21KDObserved bind size: 21KD

WB (Western Blot)
Anti- MGMT Picoband antibody, AAA46549, Western blottingAll lanes: Anti MGMT (AAA46549) at 0.5ug/mlWB: Recombinant Human MGMT Protein 0.5ngPredicted bind size: 21KDObserved bind size: 21KD

ADDITIONAL INFORMATION

Related Product Information for anti-MGMT antibody	Description: Rabbit IgG polyclonal antibody for Methylated-DNA--protein-cysteine methyltransferase(MGMT) detection. Tested with WB, IHC-P, ICC in Human. Background: O6-alkylguanine DNA alkyltransferase (also known as AGT, MGMT or AGAT) is a protein that in humans is encoded by the O6-methylguanine DNA methyltransferase (MGMT) gene. MGMT is mapped to 10q26.3. This gene is crucial for genome stability. It repairs the naturally occurring mutagenic DNA lesion O6-methylguanine back to guanine and prevents mismatch and errors during DNA replication and transcription. It has been found that methylation of the MGMT promoter in the tumor was associated with longer survival.
References	1. Hegi, M. E., Diserens, A.-C., Godard, S., Dietrich, P.-Y., Regli, L., Ostermann, S., Otten, P., Van Melle, G., de Tribolet, N., Stupp, R. Clinical trial substantiates the predictive value of O-6-methylguanine-DNA methyltransferase promoter methylation in glioblastoma patients treated with temozolomide. Clin. Cancer Res. 10: 1871-1874, 2004. 2. Natarajan AT, Vermeulen S, Darroudi F, Valentine MB, Brent TP, Mitra S, Tano K (January 1992). "Chromosomal localization of human O6-methylguanine-DNA methyltransferase (MGMT) gene by in situ hybridization". Mutagenesis 7 (1): 83-5. 3. Shiraishi A, Sakumi K, Sekiguchi M (October 2000). "Increased susceptibility to chemotherapeutic alkylating agents of mice deficient in DNA repair methyltransferase". Carcinogenesis 21 (10): 1879-1883.

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	21,646 Da
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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