

Anti-MGMT Picoband Antibody

Catalog # ABO11957

Product Information

Application	WB, IHC-P, ICC
Primary Accession	P16455
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Methylated-DNA--protein-cysteine methyltransferase(MGMT) detection. Tested with WB, IHC-P, ICC in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4255
Other Names	Methylated-DNA--protein-cysteine methyltransferase, 2.1.1.63, 6-O-methylguanine-DNA methyltransferase, MGMT, O-6-methylguanine-DNA-alkyltransferase, MGMT
Calculated MW	21646
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Nucleus.
Source	Eukaryota
Protein Name	Methylated-DNA--protein-cysteine methyltransferase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	MGMT
Function	Involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) and O4-methylthymine (O4-MeT) in DNA. Repairs the methylated nucleobase in DNA by stoichiometrically transferring the methyl group to a cysteine residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated.
Cellular Location	Nucleus.

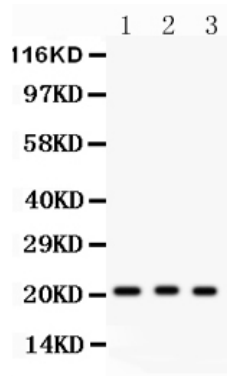
Background

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.

Images

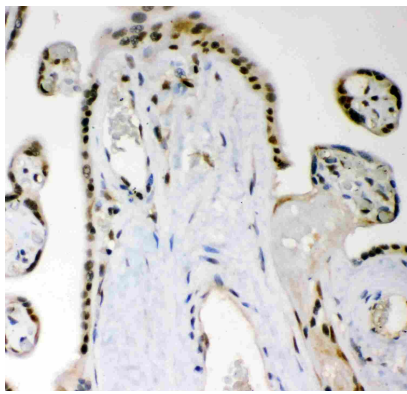


Anti- MGMT Picoband antibody, ABO11957, Western blottingAll lanes: Anti MGMT (ABO11957) at 0.5ug/mlWB: Recombinant Human MGMT Protein 0.5ngPredicted bind size: 21KDObserved bind size: 21KD



Anti- MGMT Picoband antibody, ABO11957, Western blottingAll lanes: Anti MGMT (ABO11957) 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

Anti- MGMT Picoband antibody, ABO11957, IHC(P)IHC(P): Human Placenta Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.