

**Anti-MGMT Picoband Antibody**  
Catalog # ABO11957**Specification**

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**Anti-MGMT Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P16455</a>
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.

**Anti-MGMT Picoband Antibody - 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 MW KDa

**Application Details**

Immunocytochemistry , 0.5-1 µg/ml, Human, -<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Nucleus.

**Protein Name**

Methylated-DNA--protein-cysteine methyltransferase

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**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.

## Anti-MGMT Picoband Antibody - 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

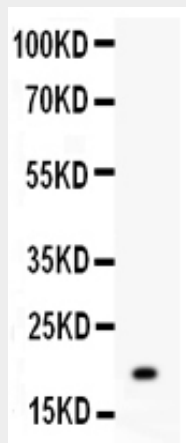
Nucleus.

## Anti-MGMT Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

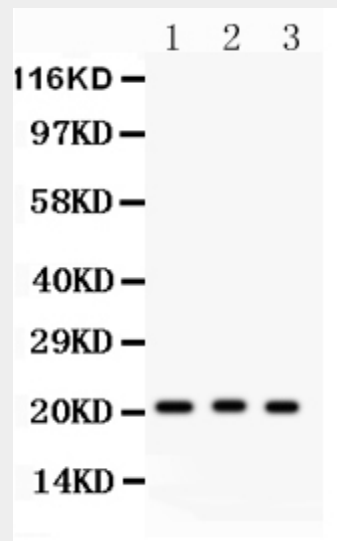
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-MGMT Picoband Antibody - Images

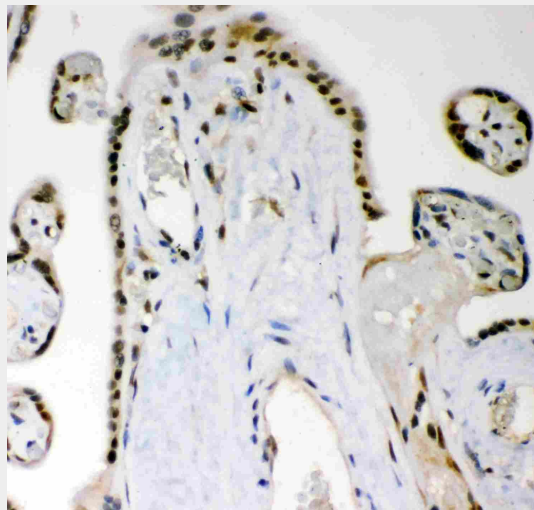


Anti- MGMT Picoband antibody, ABO11957, Western blottingAll lanes: Anti MGMT (ABO11957) at 0.5ug/mlWB: Recombinant Human MGMT Protein 0.5ngPredicted bind size: 21KDObserved bind

size: 21KD



Anti- MGMT Picoband antibody, ABO11957, Western blotting All lanes: Anti MGMT (ABO11957) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: Human Placenta Tissue Lysate at 50ug Lane 3: JURKAT Whole Cell Lysate at 40ug Predicted bind size: 21KD Observed bind size: 21KD



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

#### **Anti-MGMT Picoband Antibody - 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.