

## Anti-MGMT Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9266-Fluoro647

### About MGMT

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.

### Overview

Product Name	Anti-MGMT Antibody Picoband® Fluoro647 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P16455

### Technical Details

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.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647 Excitation Wavelength: 650 nm Emission Wavelength: 665 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 2 Publications Citing This Product

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1. PubMed ID: 10.1007/s11670-008-0139-4, Expressions of MGMT and Survivin in colorectal carcinoma
2. PubMed ID: 32881880, Minea RO,Duc TC,Swenson SD,Cho HY,Huang M,Hartman H,Hofman FM,Schönthal AH,Chen TC.Developing a clinically relevant radiosensitizer for temozolomide-resistant gliomas.PLoS One.2020 Sep 3;15(9):e0238238.doi:10.1371/journal.pone.0238238.PMID:32881880;PMCID:

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