

For Research Use Only

# CoraLite®594-conjugated MGMT Monoclonal antibody



Catalog Number:CL594-67476

## Basic Information

**Catalog Number:**

CL594-67476

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG29936

**GenBank Accession Number:**

BC000824

**GeneID (NCBI):**

4255

**UNIPROT ID:**

P16455

**Full Name:**

O-6-methylguanine-DNA  
methyltransferase

**Calculated MW:**

22 kDa

**Observed MW:**

22 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1H2C9

**Excitation/Emission maxima  
wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

FC (Intra)

**Species Specificity:**

Human

## Background Information

MGMT is the primary vehicle for cellular removal of alkyl lesions from the O-6 position of guanine and the O-4 position of thymine. While key to the maintenance of genomic integrity, MGMT also removes damage induced by alkylating chemotherapies, inhibiting the efficacy of cancer treatment [PMID:23065697].MGMT is the primary mechanism for the removal of alkylation damage from the O-6 position of guanine [PMID: 17482892]. The O-6 position of guanine is one of several positions in DNA bases to which alkyl groups are attached in SN1 alkylation reactions, and this repair has been well-characterized in mammalian cells and via MGMT homologs in bacteria and Archaea.[PMID: 10767620]

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

---

## Selected Validation Data