

For Research Use Only

# MGMT Recombinant antibody, PBS Only

Catalog Number: 86115-5-PBS



## Basic Information

**Catalog Number:**

86115-5-PBS

**Size:**

100ug , Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG9996

**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.:**

243130G10

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, Indirect ELISA

**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 -80°C.

**Storage Buffer:**

PBS only, pH7.3

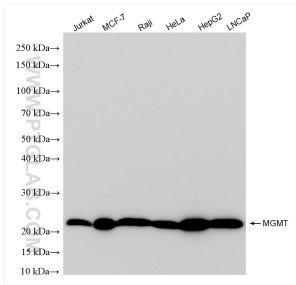
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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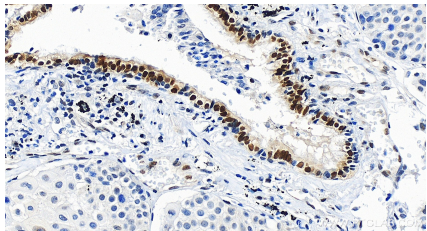
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 89933-4-RR (MGMT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86115-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 86115-5-RR (MGMT antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86115-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 86115-5-RR (MGMT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86115-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using MGMT antibody (89933-4-RR, Clone: 243130G10 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86115-5-PBS in a different storage buffer formulation.