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Datasheet for ABIN6972348  
**anti-MGMT antibody (C-Term)**

2 Images

Overview

Quantity:	100 µL
Target:	MGMT
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	This MGMT antibody was raised against a peptide derived from the C-terminal region of human MGMT.
Isotype:	IgG
Characteristics:	MGMT (O-6 methylguanine DNA methyltransferase) is an enzyme involved in DNA damage repair. MGMT transfers methyl groups from O-6 methylguanine methylated DNA, and other methylated adducts, to a cysteine residue in itself, thus reversing DNA damage caused by alkylation. This is a suicide reaction as the enzyme is irreversibly inactivated. MGMT helps prevent DNA alkylation events from causing mutations. It also contributes to resistance to chemotherapy in cancer patients being treated with alkylating drugs. MGMT antibody (pAb) was raised in a Rabbit host. It has been validated for use in Immunoprecipitation and Western blot, it has been shown to react with Human samples.
Purification:	Affinity Purified

## Target Details

Target:	MGMT
Alternative Name:	MGMT ( <a href="#">MGMT Products</a> )
Molecular Weight:	28 kDa
NCBI Accession:	<a href="#">NP_002403</a>
Pathways:	<a href="#">DNA Damage Repair</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>

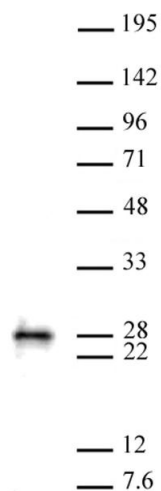
## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

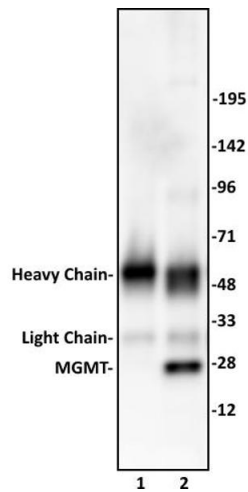
Buffer:	Purified IgG in 70 mM Tris ( pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.

## Images



### Western Blotting

**Image 1.** MGMT antibody (pAb) tested by Western blot. Nuclear extract of MCF-7 cells (20 µg) probed with MGMT antibody (pAb) at a dilution of 1:500.



### Immunoprecipitation

**Image 2.** MGMT antibody (pAb) tested by Immunoprecipitation. 10  $\mu$ L of MGMT antibody was used to immunoprecipitate MGMT from 250  $\mu$ g of MCF-7 nuclear cell extract (lane 2). 10  $\mu$ L of rabbit IgG was used as a negative control (lane 1). The immunoprecipitated protein was detected by Western blotting using the MGMT antibody at a dilution of 1:500.