

## Product datasheet

# Anti-MGMT antibody ab69629

★★★★★ 1 Abreviews 4 References 2 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-MGMT antibody  |
| <b>Description</b>         | Rabbit polyclonal to MGMT   |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> ICC/IF, WB, ELISA                            |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human<br><b>Predicted to work with:</b> Rat   |
| <b>Immunogen</b>           | Synthetic peptide derived from the internal region of human MGMT. |
| <b>Positive control</b>    | Extracts from Jurkat cells.                                       |

### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                  |
| <b>Storage buffer</b>       | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS |
| <b>Purity</b>               | Immunogen affinity purified  |
| <b>Clonality</b>            | Polyclonal   |
| <b>Isotype</b>              | IgG  |

### Applications

Our [Abpromise guarantee](#) covers the use of **ab69629** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| ICC/IF      | ★★★★★     | Use at an assay dependent concentration.   |
| WB          |           | 1/500 - 1/1000. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa). |

| Application | Abreviews | Notes   |
|-------------|-----------|---------|
| ELISA       |           | 1/5000. |

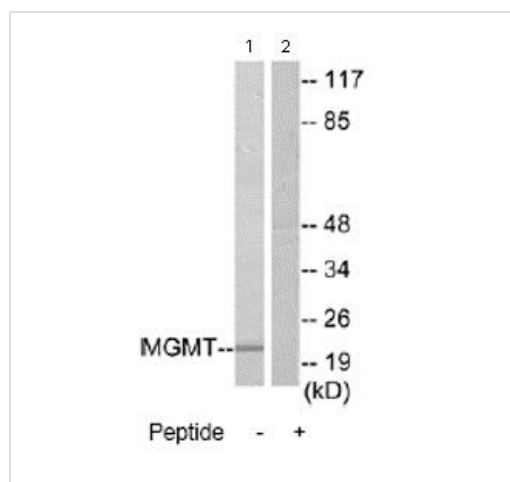
## Target

**Function** Involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) in DNA. Repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated.

**Sequence similarities** Belongs to the MGMT family.

**Cellular localization** Nucleus.

## Images



Western blot - Anti-MGMT antibody (ab69629)

**All lanes :** Anti-MGMT antibody (ab69629) at 1/500 dilution

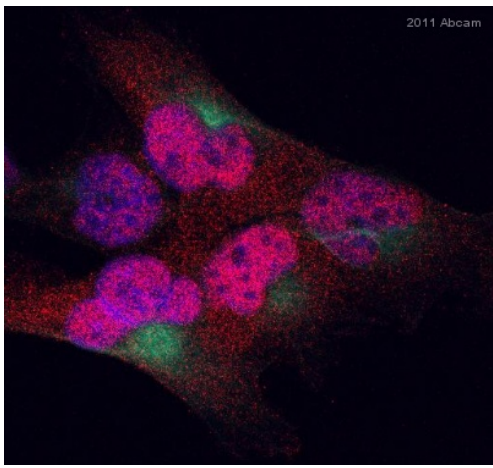
**Lane 1 :** Extracts from Jurkat cells.

**Lane 2 :** Extracts from Jurkat cells with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

**Predicted band size:** 22 kDa

**Observed band size:** 22 kDa



Immunocytochemistry/ Immunofluorescence - Anti-MGMT antibody (ab69629)

This image is courtesy of an Abreview submitted by Mark Willett.

ab69629 staining MGMT in T98G human glioma cell line by Immunocytochemistry/ Immunofluorescence. Cells were fixed in paraformaldehyde and permeabilized in 0.1% Triton X-100 prior to blocking in 3% BSA for 30 minutes at 20°C. The primary antibody was diluted 1/100 and incubated with the sample for 1 hour at 20°C. The secondary antibody was Alexa Fluor® 555-conjugated goat anti-rabbit polyclonal, diluted 1/300. MGMT staining is shown in red (AF 555) and stains nuclei and to a small extent, cytoplasm. Nuclei were stained with DAPI (blue), while microtubules were stained using an anti-tubulin FITC conjugate (green).

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