

Product datasheet

Anti-MGMT antibody [EPR4398] ab108989

KO VALIDATED

Recombinant

RabMAb

5 Images

Overview

Product name	Anti-MGMT antibody [EPR4398]
Description	Rabbit monoclonal [EPR4398] to MGMT
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	MCF7 and Jurkat cell lysates
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR4398

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108989 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
WB		1/1000 - 1/10000. Detects a band of approximately 23 kDa (predicted molecular weight: 22 kDa).
IP		1/10 - 1/100.

Application notes Is unsuitable for ICC/IF or IHC-P.

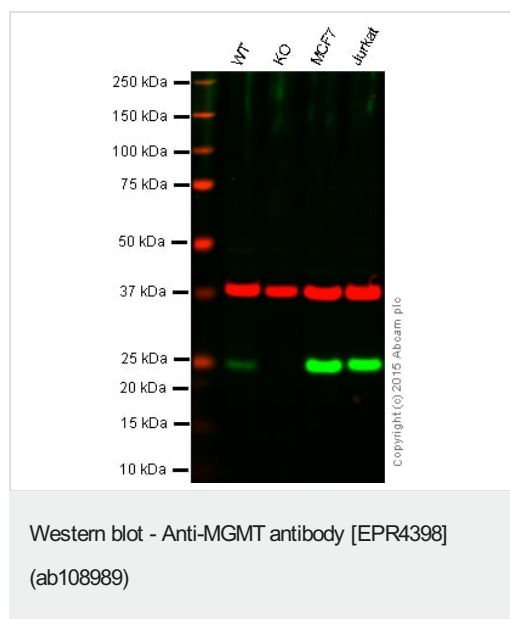
Target

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



Lane 1: Wild-type HAP1 cell lysate (20 µg)

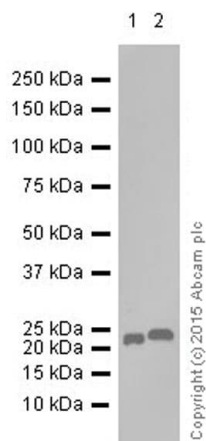
Lane 2: MGMT knockout HAP1 cell lysate (20 µg)

Lane 3: MCF7 cell lysate (20 µg)

Lane 4: Jurkat cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab108989 observed at 22 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab108989 was shown to specifically react with MGMT when MGMT knockout samples were used. Wild-type and MGMT knockout samples were subjected to SDS-PAGE. ab108989 and **ab8245** (loading control to MGMT) were diluted 1/1000 and 1/2000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-MGMT antibody [EPR4398]
(ab108989)

All lanes : Anti-MGMT antibody [EPR4398] (ab108989) at 1/1000 dilution (purified)

Lane 1 : MCF7 cell lysate

Lane 2 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

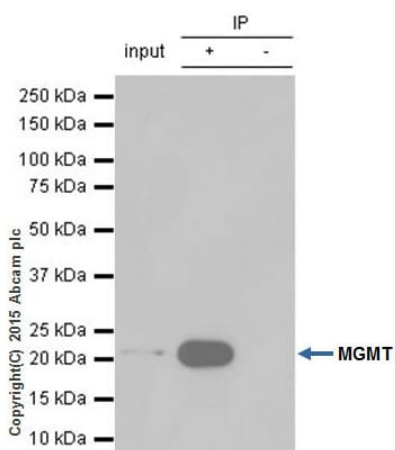
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

Predicted band size: 22 kDa

Observed band size: 23 kDa

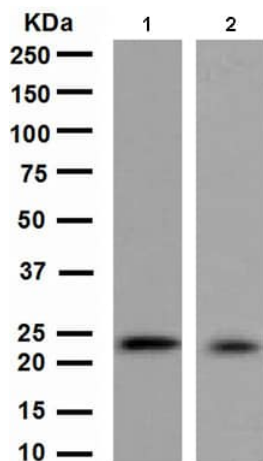
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunoprecipitation - Anti-MGMT antibody
[EPR4398] (ab108989)

ab108989 (purified) at 1/30 immunoprecipitating MGMT in 10 µg MCF7 (Lanes 1 and 2, observed at 23 kDa). Lane 3 - PBS. For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10,000 dilution. Blocking buffer and concentration: 5% NFDM/TBST Dilution buffer and concentration: 5% NFDM/TBST



Western blot - Anti-MGMT antibody [EPR4398] (ab108989)

All lanes : Anti-MGMT antibody [EPR4398] (ab108989) at 1/1000 dilution (unpurified)

Lane 1 : MCF7 cell lysate

Lane 2 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 22 kDa

Observed band size: 23 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-MGMT antibody [EPR4398] (ab108989)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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