

Anti-MGMT antibody [EPR4397] ab108630

敲除验证 重组 RabMAb

12 References 7 图像

概述	
产品名称	Anti-MGMT抗体[EPR4397]
描述	兔单克隆抗体[EPR4397] to MGMT
宿主	Rabbit
经测试应用	适用于: WB, IHC-P 不适用于: Flow Cyt, ICC/IF or IP
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: MCF7, Jurkat, HeLa, and HT29 cell lysates IHC-P: Human clear cell carcinoma, lung cancer, and spleen tissues
常规说明	<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>
性能	
形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号EPR4397

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab108630于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 23 kDa (predicted molecular weight: 22 kDa).
IHC-P		1/800. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended. See IHC antigen retrieval protocols . For unpurified use at 1/250- 1/500.

应用说明

Is unsuitable for Flow Cyt, ICC/IF or IP.

靶标

功能

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.

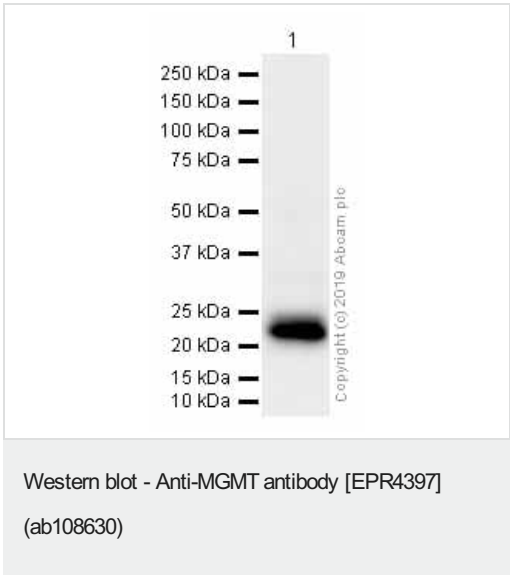
序列相似性

Belongs to the MGMT family.

细胞定位

Nucleus.

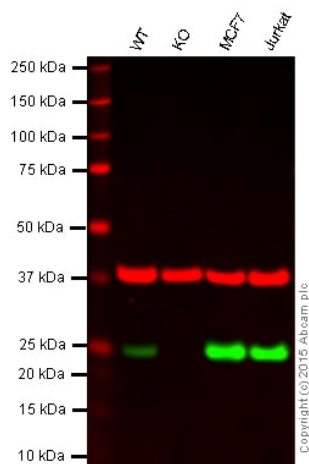
图片



Anti-MGMT antibody [EPR4397] (ab108630) at 1/5000 dilution
(Purified) + MCF7 (Human breast adenocarcinoma epithelial cell)
whole cell lysates at 15 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 22 kDa
Observed band size: 22 kDa



Western blot - Anti-MGMT antibody [EPR4397]
(ab108630)

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

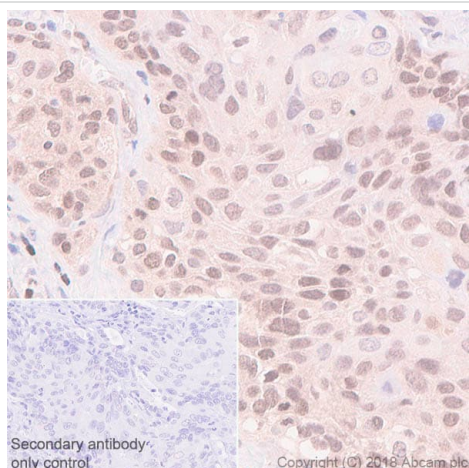
Lane 2: MGMT knockout HAP1 cell lysate (20 µg)

Lane 3: MCF7 cell lysate (20 µg)

Lane 4: Jurkat cell lysate (20 µg)

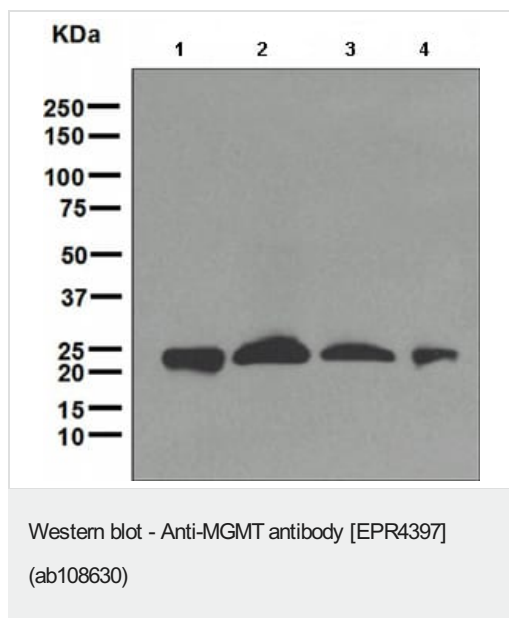
Lanes 1 - 4: Merged signal (red and green). Green - unpurified ab108630 observed at 22 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab108630 was shown to specifically react with MGMT when MGMT knockout samples were used. Wild-type and MGMT knockout samples were subjected to SDS-PAGE. ab108630 and **ab8245** (loading control to GAPDH) 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MGMT antibody [EPR4397] (ab108630)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung cancer tissue sections labeling MGMT with purified ab108630 at 1:800 dilution (0.94 µg/ml). Heat mediated antigen retrieval was performed using Citrate buffer, pH 6.0. ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



All lanes : Anti-MGMT antibody [EPR4397] (ab108630) at 1/1000 dilution (Unpurified)

Lane 1 : MCF7 cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : HT29 cell lysate

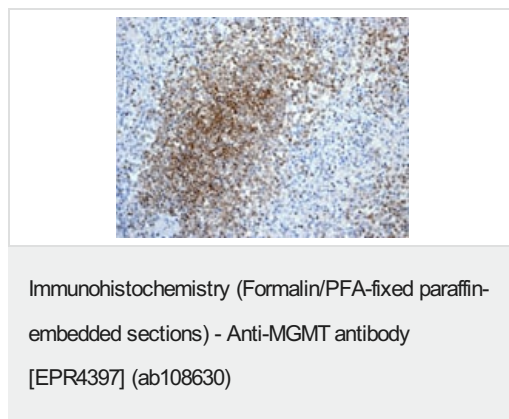
Lysates/proteins at 10 µg per lane.

Predicted band size: 22 kDa

Observed band size: 23 kDa







Unpurified ab108630, at a 1/250 dilution, staining MGMT in paraffin embedded Human clear cell carcinoma tissue by Immunohistochemistry.



Unpurified ab108630, at a 1/250 dilution, staining MGMT in paraffin embedded Human spleen tissue by Immunohistochemistry.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-MGMT antibody [EPR4397] (ab108630)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors