

## Product datasheet

# Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free ab249186

KO VALIDATED Recombinant RabMAb

10 Images

### Overview

<b>Product name</b>	Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR10959(B)] to MPG/AAG - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, Flow Cyt (Intra), WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab249186 is the carrier-free version of <a href="#">ab155092</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR10959(B)
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab249186 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 33 kDa.

## Target

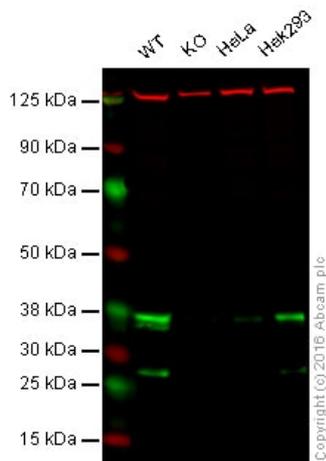
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<b>Function</b>	Hydrolysis of the deoxyribose N-glycosidic bond to excise 3-methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions.
<b>Sequence similarities</b>	Belongs to the DNA glycosylase MPG family.
<b>Cellular localization</b>	Nucleus.

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## Images

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Western blot - Anti-MPG/AAG antibody  
[EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [ab155092](#), the same antibody clone in a different buffer formulation.

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

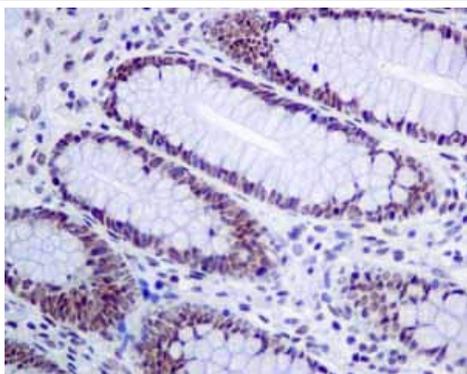
**Lane 2:** MPG/AAG knockout HAP1 cell lysate (20 µg)

**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** HEK293 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - [ab155092](#) observed at 35 kDa. Red - loading control, [ab8245](#).

[ab155092](#) was shown to specifically react with MPG/AAG when MPG/AAG knockout samples were used. Wild-type and MPG/AAG knockout samples were subjected to SDS-PAGE. [ab155092](#) and [ab8245](#) (loading control to GAPDH) were diluted at 1/10,000 and 1/10,000 dilution respectively and incubated overnight at 4°C. Blots were developed with IRDye® 800CW Goat anti-Rabbit IgG (H + L) and IRDye® 680 Goat anti-Mouse IgG (H + L) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.

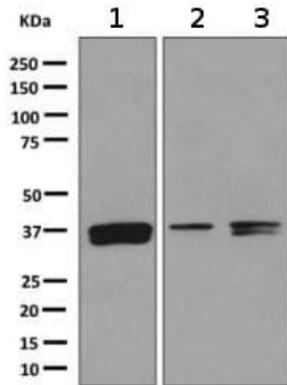


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody  
[EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [ab155092](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin embedded Human normal colon tissue using [ab155092](#) showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

**All lanes** : Anti-MPG/AAG antibody [EPR10959(B)] ([ab155092](#)) at 1/10000 dilution

**Lane 1** : HeLa cell lysate

**Lane 2** : 293T cell lysate

**Lane 3** : Jurkat cell lysate

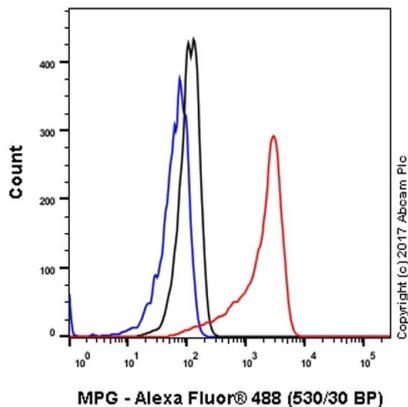
Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 33 kDa

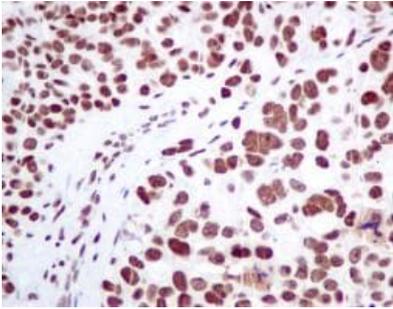
This data was developed using [ab155092](#), the same antibody clone in a different buffer formulation.



Flow Cytometry (Intracellular) - Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [ab155092](#), the same antibody clone in a different buffer formulation.

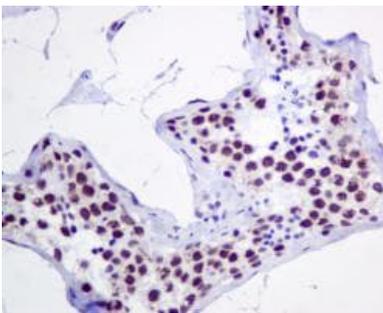
Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling MPG/AAG with unpurified [ab155092](#) at 1/20 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) ([ab172730](#)) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [\*\*ab155092\*\*](#), the same antibody clone in a different buffer formulation.

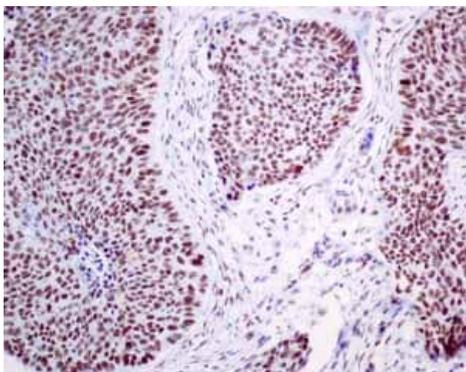
Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labeling MPG/AAG with [\*\*ab155092\*\*](#) at 1/50 dilution. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [\*\*ab155092\*\*](#), the same antibody clone in a different buffer formulation.

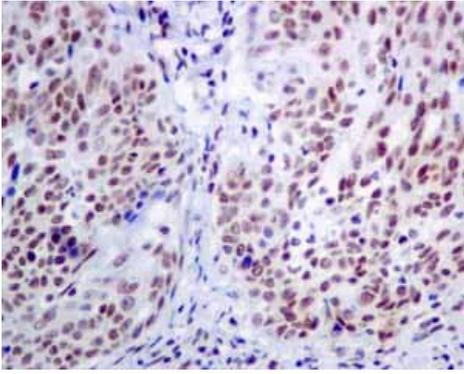
Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling MPG/AAG with [\*\*ab155092\*\*](#) at 1/50 dilution. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [\*\*ab155092\*\*](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin embedded Human lung adenocarcinoma tissue using [\*\*ab155092\*\*](#) showing +ve staining.

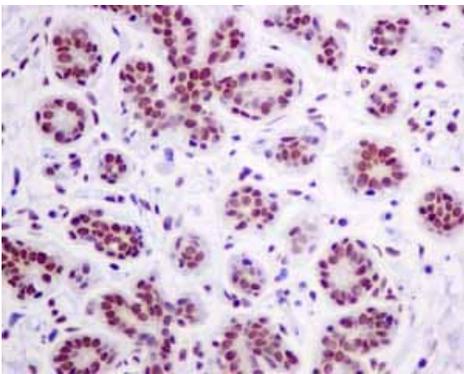
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [ab155092](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin embedded Human cervical carcinoma tissue using [ab155092](#) showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

This data was developed using [ab155092](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin embedded Human normal breast tissue using [ab155092](#) showing +ve staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

### Why choose a recombinant antibody?

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

Anti-MPG/AAG antibody [EPR10959(B)] - BSA and Azide free (ab249186)

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