

Product datasheet

Anti-MPG/AAG antibody [EPR10959(B)] ab155092

KO VALIDATED Recombinant **RabMAb**

★★★★★ 7 Abreviews 3 References 11 Images

Overview

Product name	Anti-MPG/AAG antibody [EPR10959(B)]
Description	Rabbit monoclonal [EPR10959(B)] to MPG/AAG
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, IP, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	corresponding to Human MPG/AAG. Database link: P29372
Positive control	HeLa, 293T and Jurkat cell lysates; Human testis tissue and ovarian carcinoma tissue.
General notes	This product was previously labelled as MPG

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

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. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10959(B)

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab155092** 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	★★★★★	1/250 - 1/500. Use with paraformaldehyde fixed cells, permeabilized with 0.5% Triton X100/PBS.
WB	★★★★★	1/10000 - 1/50000. Predicted molecular weight: 33 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP	★★★★☆	1/10 - 1/100.
Flow Cyt		Use at an assay dependent concentration.

Target

Function

Hydrolysis of the deoxyribose N-glycosidic bond to excise 3-methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions.

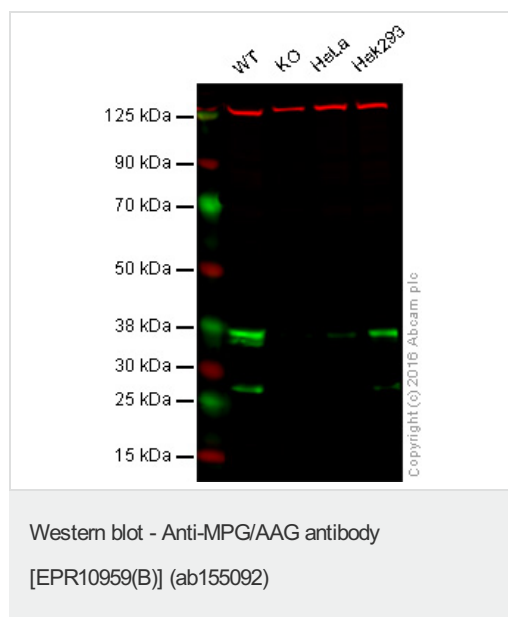
Sequence similarities

Belongs to the DNA glycosylase MPG family.

Cellular localization

Nucleus.

Images



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

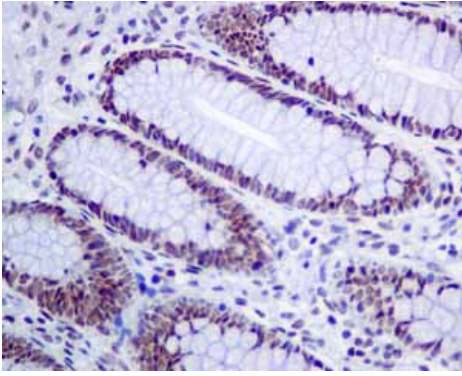
Lane 2: MPG/AAG knockout HAP1 cell lysate (20 µg)

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](#).

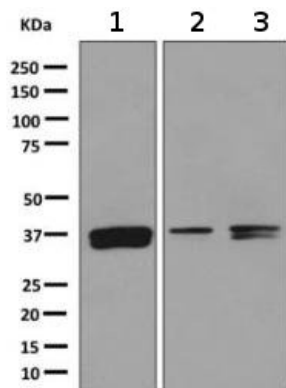
ab155092 was shown to specifically react with MPG/AAG when MPG/AAG knockout samples were used. Wild-type and MPG/AAG knockout samples were subjected to SDS-PAGE. Ab155092 and [ab8245](#) (loading control to GAPDH) were diluted at 1/10,000 and 1/10,000 dilution respectively and incubated overnight at 4C. 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)] (ab155092)

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)] (ab155092)

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.

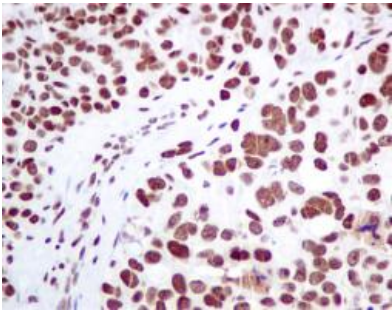
Secondary

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

Predicted band size: 33 kDa

Flow Cytometry - Anti-MPG/AAG antibody [EPR10959(B)] (ab155092)

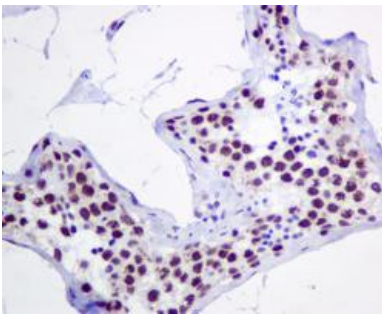
Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling MPG/AAG with unpurified ab155092 at 1/20 dilution (10 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488)(ab150077)(1/2000 dilution) was used 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)] (ab155092)

Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labeling MPG/AAG with ab155092 at 1/50 dilution.

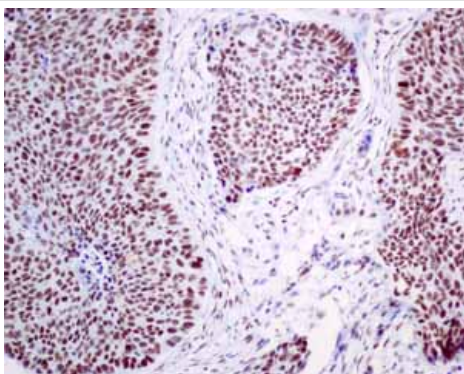
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] (ab155092)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling MPG/AAG with ab155092 at 1/50 dilution.

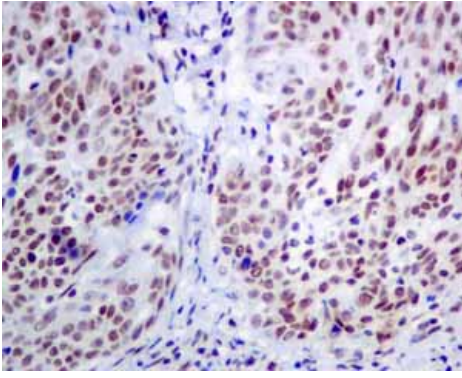
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] (ab155092)

Immunohistochemical analysis of paraffin embedded Human lung adenocarcinoma tissue using ab155092 showing +ve staining.

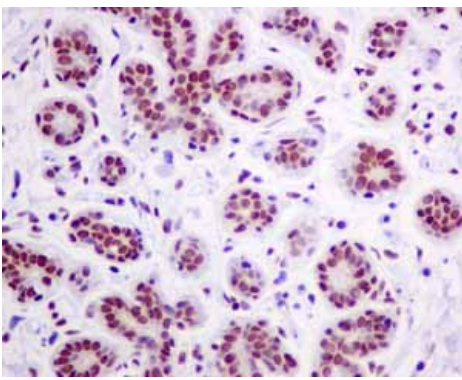
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] (ab155092)

Immunohistochemical analysis of paraffin embedded Human cervical carcinoma tissue using ab155092 showing +ve staining.

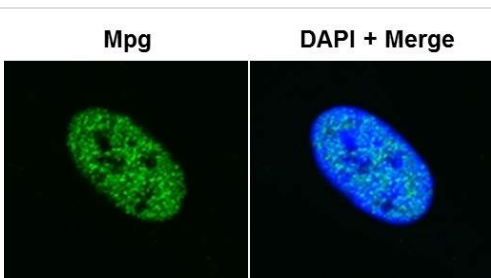
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MPG/AAG antibody [EPR10959(B)] (ab155092)

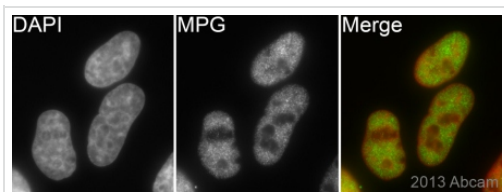
Immunohistochemical analysis of paraffin embedded Human normal breast tissue using ab155092 showing +ve staining.

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



Immunocytochemistry/ Immunofluorescence - Anti-MPG/AAG antibody [EPR10959(B)] (ab155092)
This image is courtesy of an anonymous Abreview

ab155092 staining MPG/AAG in human primary fibroblasts by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.2% Triton X-100 and blocked with 2% BSA for 1 hour at room temperature. Samples were incubated with primary antibody (1/500 in PBS + 2% BSA) for 14 hours at 4°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal (1/300) was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-MPG/AAG antibody [EPR10959(B)] (ab155092)

Image courtesy of an Abreview submitted by Dr. Kirk McManus, Univ. of Manitoba/Cancer Care MICB, Canada

ab155092 (1/500) staining MPG/AAG in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilized with 0.5% Triton X-100/PBS and counterstained with DAPI in order to highlight the nucleus (red). For further experimental details please refer to Abreview.

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