

Anti-HMGA1 antibody [EPR7839] ab129153

 **RabMAb**

★★★★★ **3 Abreviews** **51 References** **9 图像**

概述

产品名称	Anti-HMGA1抗体[EPR7839]
描述	兔单克隆抗体[EPR7839] to HMGA1
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: rat kidney and mouse brain tissue lysates, MDA-MB-231 nuclear and membrane fraction lysates, MDA-MB-231 and HCT 116 whole cell lysates prepared in 1% SDS Hot lysis method, MDA-MB-231 and HCT 116 whole cell lysates prepared in RIPA lysis method, SK-OV-3 whole cell lysate. IHC-P: Human transitional cell carcinoma of bladder tissue. ICC/IF: HeLa cells. Flow Cyt (intra): HepG2 cells.
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>

性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆

克隆编号EPR7839

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab129153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
Flow Cyt (Intra)		1/60. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/50000. Detects a band of approximately 17 kDa (predicted molecular weight: 12 kDa).
IHC-P	★★★★★ (1)	1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
ICC/IF	★★★★★ (1)	1/500.

靶标

功能

HMGI/Y bind preferentially to the minor groove of A+T rich regions in double stranded DNA. It is suggested that these proteins could function in nucleosome phasing and in the 3'-end processing of mRNA transcripts. They are also involved in the transcription regulation of genes containing, or in close proximity to A+T-rich regions.

疾病相关

Note=A chromosomal aberration involving HMGA1 is found in pulmonary chondroid hamartoma. Translocation t(6;14)(p21;q23-24) with RAD51L1.

序列相似性

Belongs to the HMGA family.
Contains 3 A.T hook DNA-binding domains.

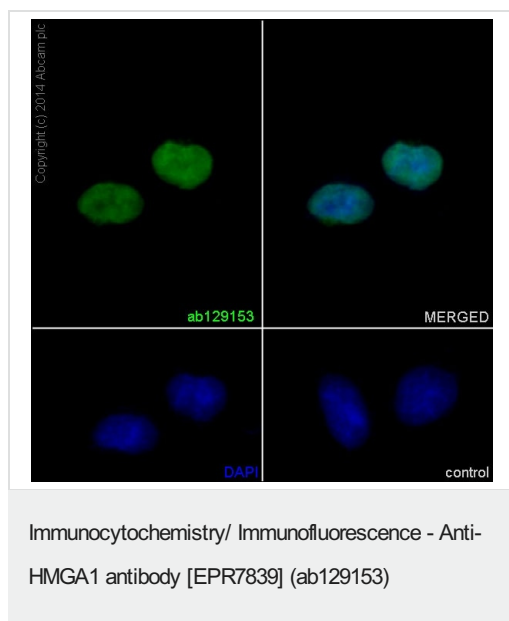
翻译后修饰

Constitutively phosphorylated on two or three sites. Phosphorylated upon DNA damage, probably by ATM or ATR. Hyperphosphorylated at early stages of apoptosis, followed by dephosphorylation and methylation, which coincides with chromatin condensation. Isoform HMGI-Y can be phosphorylated by HIPK2.
HMGI-Y is not methylated.
Methylation at Arg-58 is mutually exclusive with methylation at Arg-60.

细胞定位

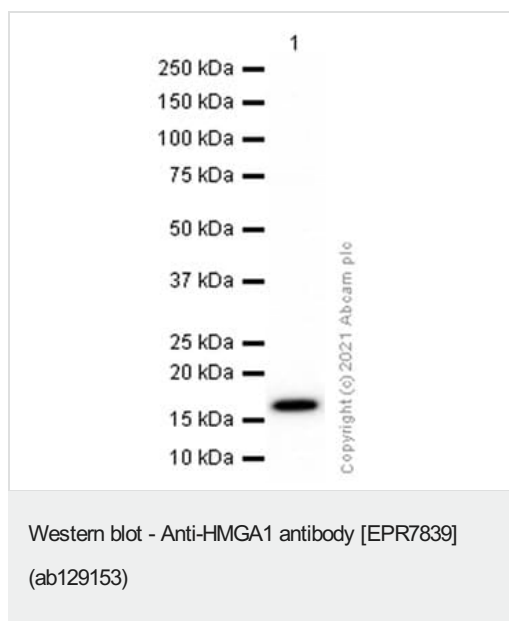
Nucleus. Chromosome.

图片



Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling HMGA1 with purified ab129153 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/500) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).



Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/10000 dilution + SK-OV-3 (Human ovarian cancer epithelial cell) whole cell lysate at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

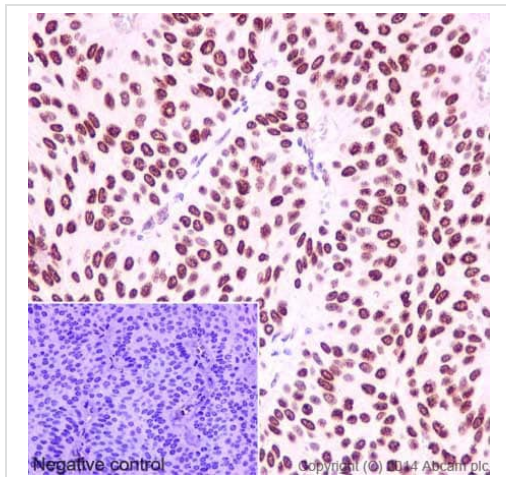
Predicted band size: 12 kDa

Observed band size: 17 kDa

Exposure time: 5 seconds

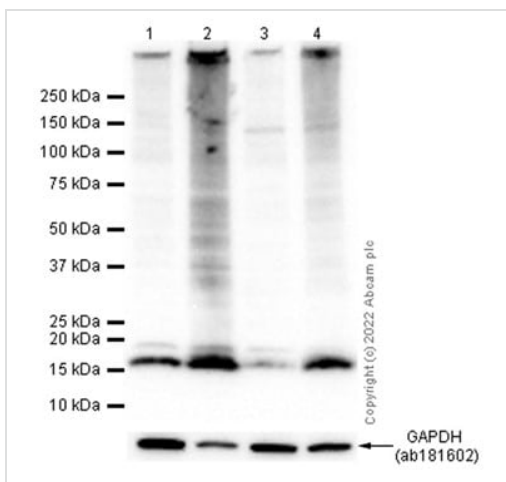
Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM /TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA1 antibody [EPR7839] (ab129153)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human transitional cell carcinoma of bladder tissue labelling HMGA1 with purified ab129153 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with Hematoxylin.



Western blot - Anti-HMGA1 antibody [EPR7839] (ab129153)

All lanes : Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/1000 dilution

Lane 1 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method

Lane 2 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method

Lane 3 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method

Lane 4 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 12 kDa

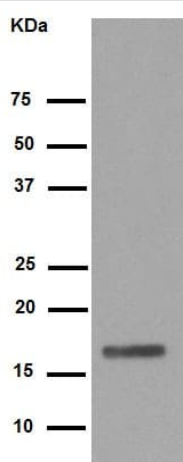
Observed band size: 17 kDa

Exposure time: 5 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM /TBST

We recommend using 1% SDS Hot lysis prepare method to get desired Western Blot results.



Western blot - Anti-HMGA1 antibody [EPR7839]
(ab129153)

Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/10000 dilution
(purified) + Mouse brain tissue lysate at 10 µg

Secondary

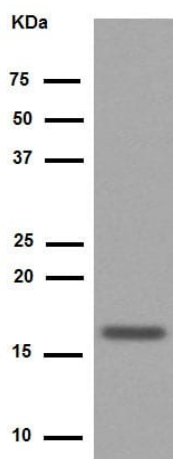
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 12 kDa

Observed band size: 17 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-HMGA1 antibody [EPR7839]
(ab129153)

Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/50000 dilution
(purified) + Rat kidney tissue lysate at 10 µg

Secondary

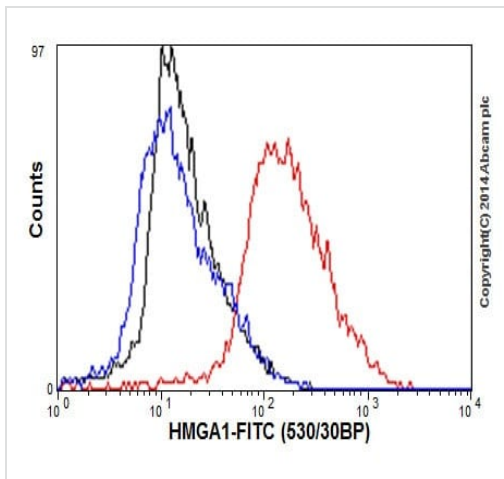
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 12 kDa

Observed band size: 17 kDa

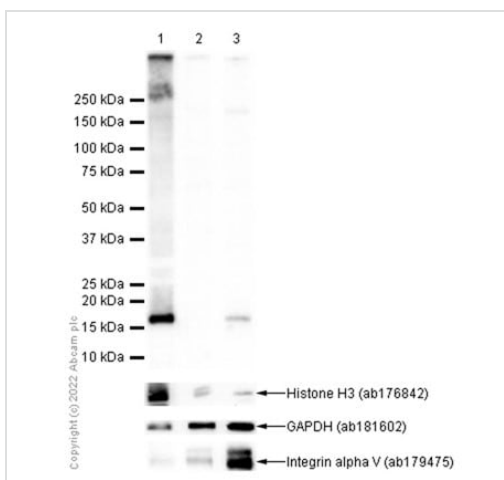
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Flow Cytometry (Intracellular) - Anti-HMGA1 antibody [EPR7839] (ab129153)

Intracellular Flow Cytometry analysis of HepG2 cells labelling HMGA1 with purified ab129153 at 1/60 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Western blot - Anti-HMGA1 antibody [EPR7839] (ab129153)

All lanes : Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/1000 dilution

Lane 1 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) nuclear fraction lysate

Lane 2 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) cytoplasm fraction lysate

Lane 3 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) membrane fraction lysate

Lysates/proteins at 15 µg per lane.

Secondary

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

Predicted band size: 12 kDa

Observed band size: 17 kDa

Exposure time: 3 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM /TBST

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-HMGA1 antibody [EPR7839] (ab129153)

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