

### Anti-HMGA1 antibody [EPR7839] ab129153

リコンビナント RabMAb

★★★★★ **3 Abreviews** **51 References** 画像数 9

#### 製品の概要

製品名	Anti-HMGA1 antibody [EPR7839]
製品の詳細	Rabbit monoclonal [EPR7839] to HMGA1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	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.
特記事項	<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>

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名                   EPR7839  
アイソタイプ                IgG

#### アプリケーション

**The Abpromise guarantee**       **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab129153の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/60. <b>ab172730</b> - 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 <b>IHC antigen retrieval protocols</b> .
ICC/IF	★★★★★ (1)	1/500.

#### ターゲット情報

**機能**                                   HMG-I/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.

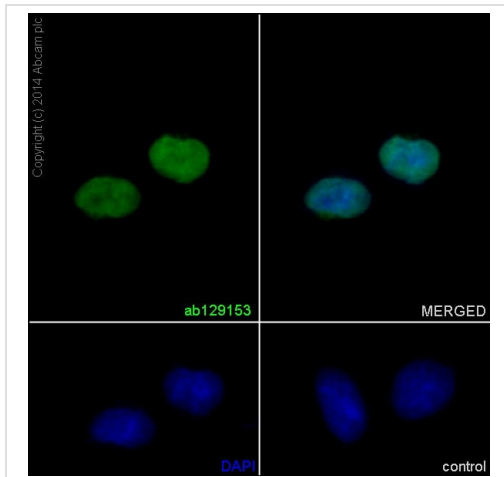
**関連疾患**                             Note=A chromosomal aberration involving HMGA1 is found in pulmonary chondroid hamartoma. Translocation t(6;14)(p21;q23-24) with RAD51L1.

**配列類似性**                         Belongs to the HMGA family.  
Contains 3 A.T hook DNA-binding domains.

**翻訳後修飾**                         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 HMG-Y can be phosphorylated by HIPK2.  
HMG-Y is not methylated.  
Methylation at Arg-58 is mutually exclusive with methylation at Arg-60.

**細胞内局在**                         Nucleus. Chromosome.

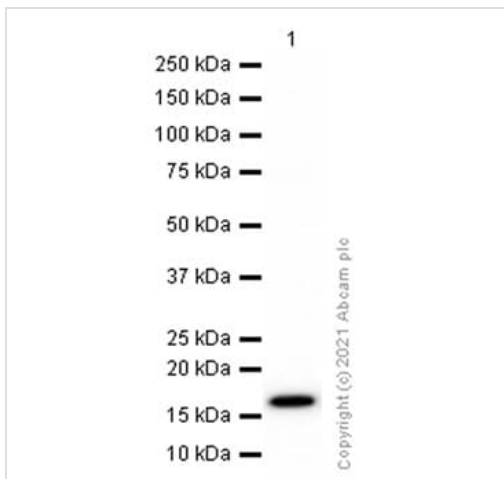
#### 画像



Immunocytochemistry/ Immunofluorescence - Anti-HMGA1 antibody [EPR7839] (ab129153)

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<sup>®</sup> 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<sup>®</sup> 594-conjugated goat anti-mouse IgG (1/500).



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

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

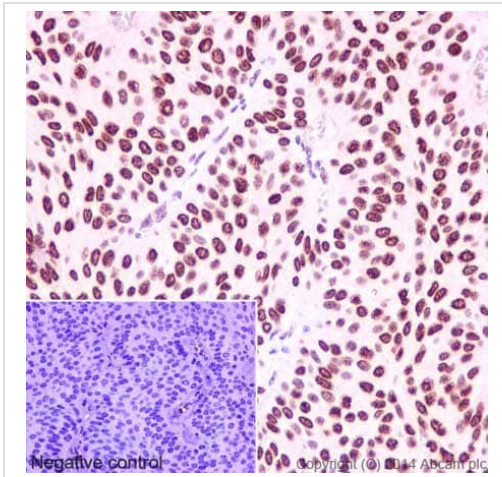
**Predicted band size:** 12 kDa

**Observed band size:** 17 kDa

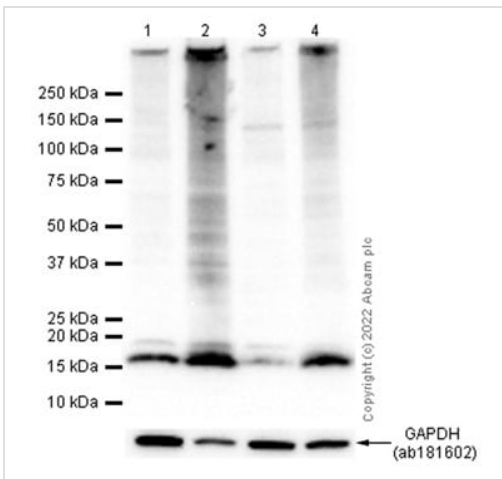
**Exposure time:** 5 seconds

**Blocking buffer and concentration:** 5% NFDN/TBST

**Diluting buffer and concentration:** 5% NFDN /TBST



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



Western blot - 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.

**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

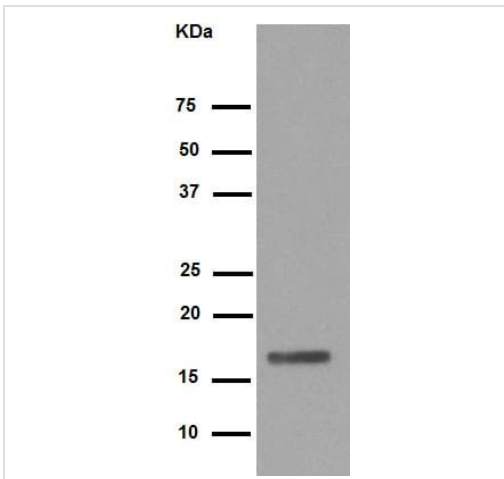
**Observed band size:** 17 kDa

**Exposure time:** 5 seconds

**Blocking buffer and concentration:** 5% NFDN/TBST

**Diluting buffer and concentration:** 5% NFDN /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  $\mu$ g

**Secondary**

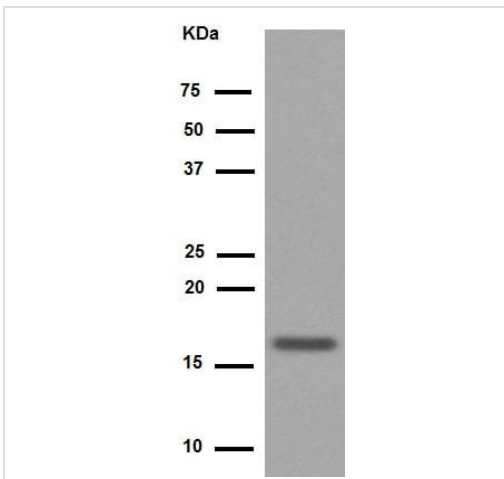
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 12 kDa

**Observed band size:** 17 kDa

Blocking buffer and concentration: 5% NFDN/TBST.

Diluting buffer and concentration: 5% NFDN /TBST.



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

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

**Secondary**

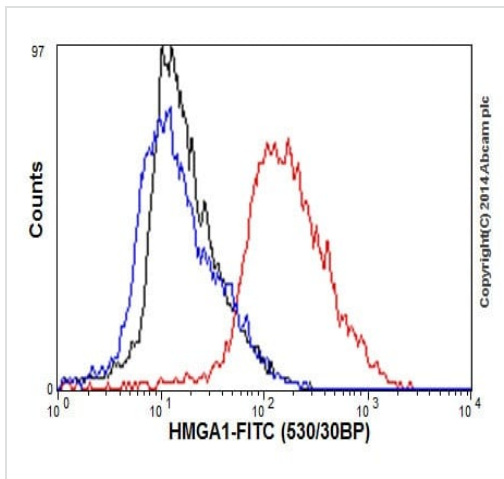
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 12 kDa

**Observed band size:** 17 kDa

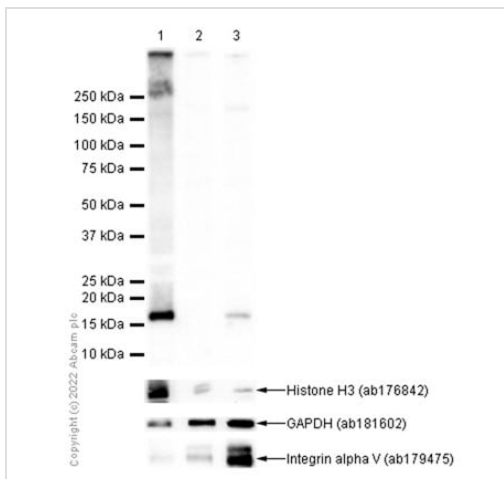
Blocking buffer and concentration: 5% NFDN/TBST.

Diluting buffer and concentration: 5% NFDN /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?

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

Anti-HMGA1 antibody [EPR7839] (ab129153)

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

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