abcam

ab129153

Anti-HMGA1 antibody [EPR7839]

Anti-HMGA1 antibody [EPR7839] (ab129153) is a rabbit monoclonal antibody detecting HMGA1 in **Western Blot, Flow Cytometry (Intra), IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 50 publications

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR7839
Purification technique	Affinity purification Protein A
Concentration	1.644 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human

Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000 - 1/50000
Notes	-

Species	Rat
Dilution info	1/1000 - 1/50000
Notes	-

Species	Human
Dilution info	1/1000 - 1/50000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Mouse, Rat

Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/60
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

ChIC/CUT&RUN-seq

Tested

Species	Human
Dilution info	5 µg
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information HMGA1

Function	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.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Stable for 12 months at -20°C

Notes

What is this antibody validated in?
Anti-HMGA1 antibody [EPR7839] (ab129153) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of HMGA1?
Anti-HMGA1 [EPR7839] (ab129153) specifically detects a band for HMGA1 (UniProt: P17096) at a molecular weight of 12kDa.

Trusted by the scientific community
Anti-HMGA1 [EPR7839] (ab129153) was first used in a scientific publication in 2012 and has been cited over 50 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [EPR7839] also available for your convenience: ab129153, Alexa Fluor® 488 - ab204667, PE - ab209761, Carrier free - ab226112

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

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

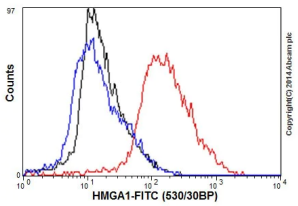
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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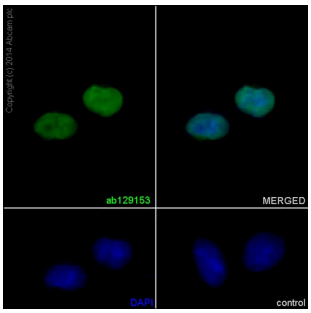
11 product images



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

HMGA1 Flow Cytometry (Intracellular) staining using rabbit Anti-HMGA1 antibody

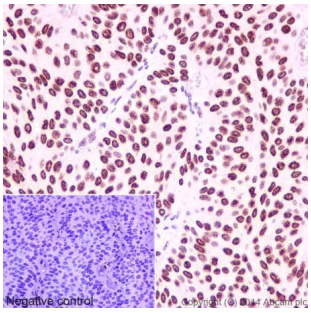
Intracellular Flow Cytometry analysis of HepG2 cells labelling HMGA1 with purified ab129153 at 1/60 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control,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



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

HMGA1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-HMGA1 antibody

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).



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

HMGA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-HMGA1 antibody

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)

HMGA1 Western blot staining of SK-OV-3 (Human ovarian cancer epithelial cell) whole cell lysate using rabbit Anti-HMGA1 antibody

Blocking buffer and concentration: 5% NFDM/TBST
Diluting buffer and concentration: 5% NFDM /TBST

Lane 1:
Western blot - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112) at 1/10000 dilution

Lane 1:
Western blot - Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/10000 dilution

All lanes:
SK-OV-3 (Human ovarian cancer epithelial cell) whole cell lysate at 15 µg

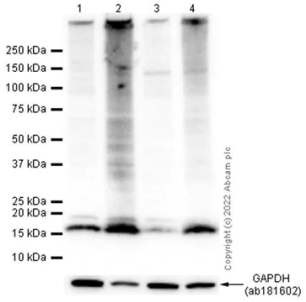
Secondary

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

Predicted band size: 12 kDa

Observed band size: 17 kDa

Exposure time: 5s



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

HMGA1 Western blot staining using rabbit Anti-HMGA1 antibody

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.
Lanes 1 - 4:
Western blot - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112) at 1/1000 dilution

Lanes 1 - 4:
Western blot - 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 at 20 µg

Lane 2:
HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method at 20 µg

Lane 3:
MDA-MB-231 (Human breast adenocarcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method at 20 µg

Lane 4:
MDA-MB-231 (Human breast adenocarcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method at 20 µg

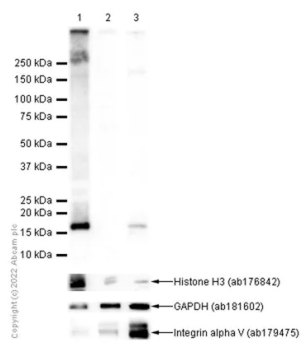
Secondary

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

Predicted band size: 12 kDa

Observed band size: 17 kDa

Exposure time: 5s



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

HMGA1 Western blot staining using rabbit Anti-HMGA1 antibody

Blocking buffer and concentration: 5% NFDM/TBST Diluting buffer and concentration: 5% NFDM /TBST
Lanes 1 - 3:
Western blot - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112) at 1/1000 dilution

Lanes 1 - 3:

Western blot - Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/1000 dilution

Lane 1:
MDA-MB-231 (Human breast adenocarcinoma epithelial cell) nuclear fraction lysate at 15 µg

Lane 2:
MDA-MB-231 (Human breast adenocarcinoma epithelial cell) cytoplasm fraction lysate at 15 µg

Lane 3:
MDA-MB-231 (Human breast adenocarcinoma epithelial cell) membrane fraction lysate at 15 µg

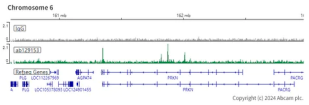
Secondary

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

Predicted band size: 12 kDa

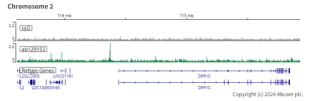
Observed band size: 17 kDa

Exposure time: 3s



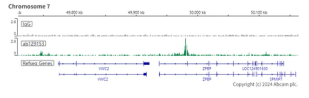
ChIC/CUT&RUN sequencing - Anti-HMGA1 antibody [EPR7839] (ab129153)

ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2.5 x 10^5 HepG2 (human hepatocellular carcinoma epithelial cell) cells and 5 µg of ab129153 [EPR7839]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control ab172730 is also shown. The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



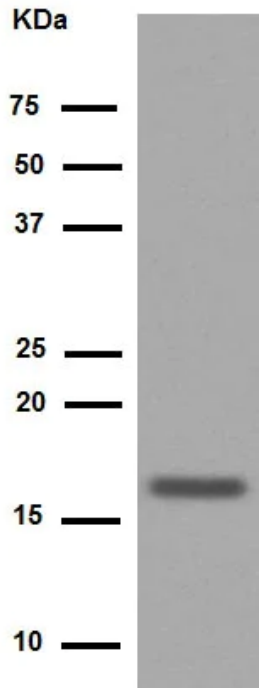
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Western blot - Anti-HMGA1 antibody [EPR7839] (ab129153)

HMGA1 Western blot staining of Rat kidney tissue lysate using rabbit Anti-HMGA1 antibody

Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM /TBST.

All lanes:
Western blot - Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/50000 dilution

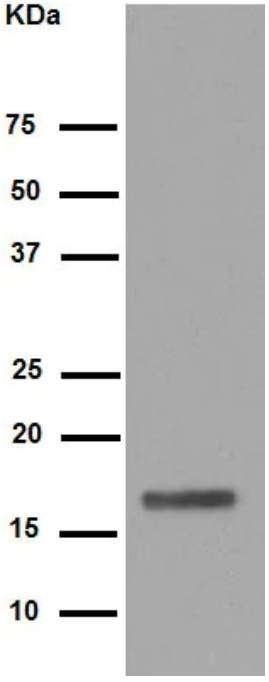
All lanes:
Rat kidney tissue lysate at 10 µg

Secondary

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

Predicted band size: 12 kDa

Observed band size: 17 kDa



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

HMGA1 Western blot staining of Mouse brain tissue lysate using rabbit Anti-HMGA1 antibody

Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM /TBST.

All lanes:
Western blot - Anti-HMGA1 antibody [EPR7839] (ab129153) at 1/10000 dilution

All lanes:
Mouse brain tissue lysate at 10 µg

Secondary

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

Predicted band size: 12 kDa

Observed band size: 17 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.