abcam

ab226112

Anti-HMGA1 antibody [EPR7839] - BSA and Azide free

Recombinant | RabMAb | Advanced Validation

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR7839
Purification technique	Affinity purification Protein A
Concentration	1.043 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

Expected

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

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	ab199376 - Rabbit monoclonal IgG (Low endotoxin, Azide free), 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	-
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	Blue Ice
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab226112 is the carrier-free version of ab129153.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

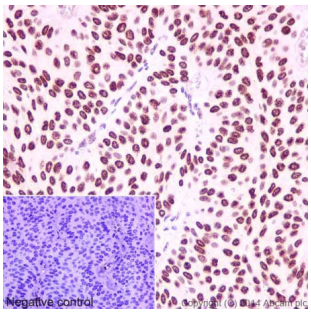
We do not recommend this combination. It is not covered by our product promise.

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.

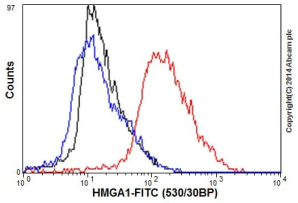
9 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112)

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

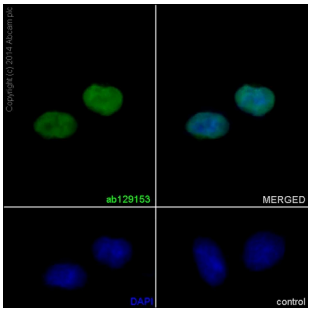
This IHC data was generated using the same anti-HMGA1 antibody clone, EPR7839, in a different buffer formulation (cat# ab129153).
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human transitional cell carcinoma of bladder tissue labelling HMGA1 with purified ab129153 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.



Flow Cytometry (Intracellular) - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112)

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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129153).



Immunocytochemistry/ Immunofluorescence - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129153).



Western blot - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129153).

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

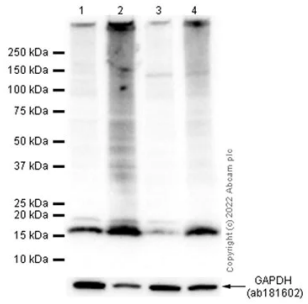
Secondary

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] - BSA and Azide free (ab226112)

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. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129153).
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

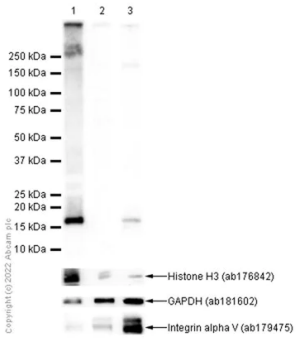
Secondary

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] - BSA and Azide free (ab226112)

HMGA1 Western blot staining using rabbit Anti-HMGA1 antibody

Blocking buffer and concentration: 5% NFDM/TBST Diluting buffer and concentration: 5% NFDM /TBST This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129153).
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

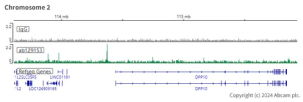
Secondary

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

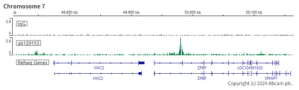


ChIC/CUT&RUN sequencing - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112)

This data was developed using the same antibody clone in a different buffer formulation (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

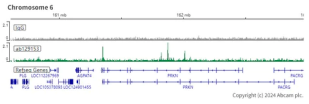
million reads. The negative IgG control ab172730 is also shown. The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



ChIC/CUT&RUN sequencing - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112)

This data was developed using the same antibody clone in a different buffer formulation (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.



ChIC/CUT&RUN sequencing - Anti-HMGA1 antibody [EPR7839] - BSA and Azide free (ab226112)

This data was developed using the same antibody clone in a different buffer formulation (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.

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