abcam

ab251363

Anti-HMGA1 antibody [EPR16649] - BSA and Azide free

Recombinant | RabMAb

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	EPR16649
Concentration	0.985 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
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

ab251363 is the carrier-free version of ab202070.

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.

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

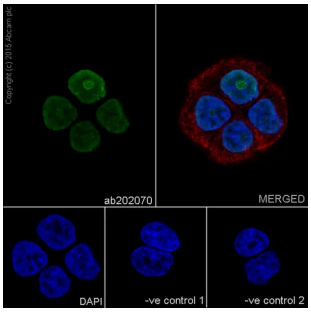
We do not recommend this combination. It is not covered by our product promise.

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.

5 product images

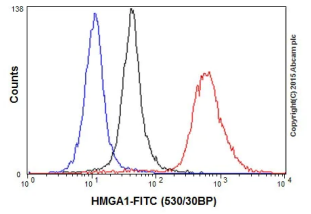


Immunocytochemistry/ Immunofluorescence - Anti-HMGA1 antibody [EPR16649] - BSA and Azide free (ab251363)

HMGA1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-HMGA1 antibody

This data was developed using ab202070, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized BxPC-3 (Human pancreas adenocarcinoma cells) cells labeling HMGA1 with ab202070 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Confocal image showing nuclear staining on BxPC-3 cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

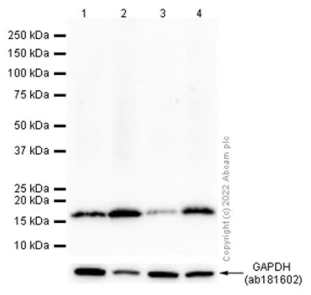
The negative controls are as follows:
-ve control 1: ab202070 at 1/500 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Flow Cytometry (Intracellular) - Anti-HMGA1 antibody [EPR16649] - BSA and Azide free (ab251363)

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

This data was developed using ab202070, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling HMGA1 with ab202070 at 1/150 dilution (red) compared with a rabbit monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.



Western blot - Anti-HMGA1 antibody [EPR16649] - BSA and Azide free (ab251363)

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 ab202070, the same antibody clone in a different buffer formulation.
Lanes 1 - 4:
Western blot - Anti-HMGA1 antibody [EPR16649] - BSA and Azide free (ab251363) at 1/10000 dilution

Lanes 1 - 4:

Western blot - Anti-HMGA1 antibody [EPR16649] (ab202070) at 1/10000 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

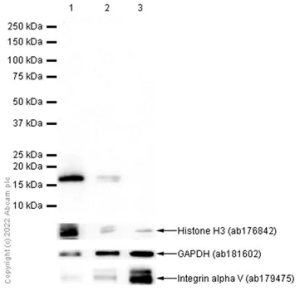
Secondary

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: 60s



Western blot - Anti-HMGA1 antibody [EPR16649] - BSA and Azide free (ab251363)

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 ab202070, the same antibody clone in a different buffer formulation.
Lanes 1 - 3:
Western blot - Anti-HMGA1 antibody [EPR16649] - BSA and Azide free (ab251363) at 1/10000 dilution

Lanes 1 - 3:
Western blot - Anti-HMGA1 antibody [EPR16649] (ab202070) at 1/10000 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

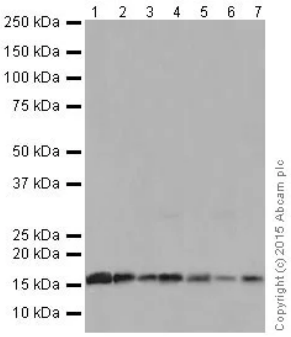
Secondary

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: 10s



Western blot - Anti-HMGA1 antibody [EPR16649] - BSA and Azide free (ab251363)

This data was developed using ab202070, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-HMGA1 antibody [EPR16649] (ab202070) at 1/10000 dilution

Lane 1:
NCCIT (Human pluripotent embryonal carcinoma) whole cell lysate at 10 µg

Lane 2:
BxPC-3 (Human pancreas adenocarcinoma cells) whole cell lysate at 10 µg

Lane 3:
HepG2 (Human liver hepatocellular carcinoma) whole cell lysate at 10 µg

Lane 4:
SK-OV-3 (Human ovarian cancer cell line) whole cell lysate at 10 µg

Lane 5:
Caco-2 (Human colorectal adenocarcinoma cells) whole cell lysate at 10 µg

Lane 6:
Human testis tissue lysate at 10 µg

Lane 7:
Human lung tissue lysate at 10 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 12 kDa

Observed band size: 18 kDa

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