abcam

# ab202070

# Anti-HMGA1 antibody [EPR16649]

Recombinant | RabMAb

## 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** | EPR16649 |
| **Purification technique** | Affinity purification Protein A |

## Reactivity data

### WB

**Tested**

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/10000 |
| **Notes** | - |

### ICC/IF

**Tested**

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/500 |
| **Notes** | - |

## Flow Cyt (Intra)

**Tested**

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/150 |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

## 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** | Avoid freeze / thaw cycle |

## Notes

**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.

## 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**

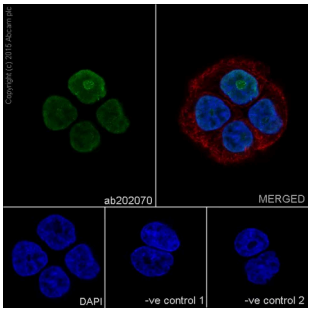
We do not recommend this combination. It is not covered by our product promise.

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.

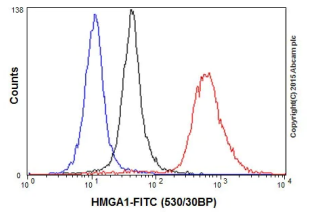
## 5 product images




## Immunocytochemistry/ Immunofluorescence - Anti-HMGA1 antibody [EPR16649] (ab202070)

HMGA1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-HMGA1 antibody

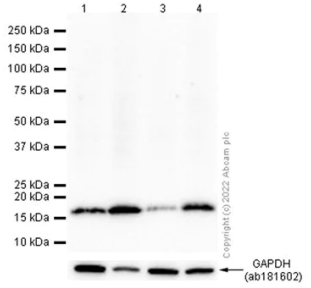
Immunofluorescent analysis of 4% paraformaldehyde-fixed 0.1% Triton X-100 permeabilized BxPC-3 (Human pancreas adenocarcinoma cells) cells labeling HMGA1 with ab202070 at 1/500 dilution followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Confocal 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] (ab202070)

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

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] (ab202070)

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 [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

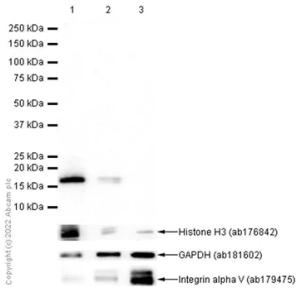
Secondary

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] (ab202070)

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 [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

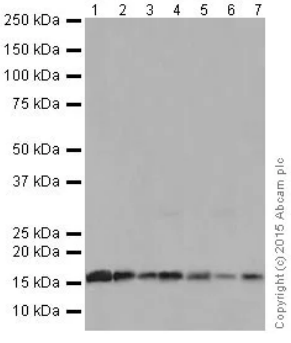
Secondary

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] (ab202070)

Blocking/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

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