abcam

ab18256

Anti-HMGB1 antibody

Rabbit Polyclonal HMGB1 antibody. Suitable for WB, ICC/IF and reacts with Mouse, Rat, Human samples. Cited in 577 publications.

KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 98.98% PBS, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Purification technique	Affinity purification Immunogen
Concentration	0.8 - 1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Mouse
Dilution info	1 µg/mL
Notes	-

Species	Rat
Dilution info	1 µg/mL
Notes	-

Species	Human
Dilution info	1 µg/mL
Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1 µg/mL
Notes	-

Expected

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

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

Storage

Shipped at conditions	Blue Ice
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

Abcam is leading the way to address reproducibility in scientific research with our highly validated recombinant monoclonal and recombinant multiclonal antibodies. Search & select one of Abcam's thousands of recombinant alternatives to eliminate batch-variability and unnecessary animal use.

If you do not find a host species to meet your needs, our catalogue and custom Chimeric range provides scientists the specificity of Abcam's RabMAbs in the species backbone of your choice. Remember to also review our range of edited cell lines, proteins and biochemicals relevant to your target that may help you further your research goals.

Abcam antibodies are extensively validated in a wide range of species and applications, so please check the reagent specifications meet your scientific needs before purchasing. If you have any questions or bespoke requirements, simply visit the Contact Us page to send us an inquiry or contact our Support Team ahead of purchase.

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

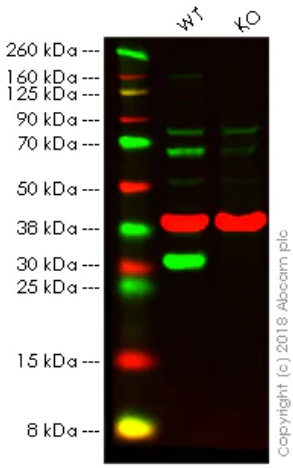
We do not recommend this combination. It is not covered by our product promise.

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.

6 product images



Western blot - Anti-HMGB1 antibody (ab18256)

Lanes 1 - 4: Merged signal (red and green). Green - ab18256 observed at 29 kDa. Red - loading control, ab9484, observed at 37 kDa.

ab18256 was shown to recognize HMGB1 in wild-type HAP1 cells as signal was lost at the expected MW in HMGB1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and HMGB1 knockout samples were subjected to SDS-PAGE. ab18256 and ab9484 (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-HMGB1 antibody (ab18256) at 1 µg/mL

Lane 1:
Wild-type HAP1 whole cell lysate at 20 µg

Lane 2:
HMGB1 knockout HAP1 whole cell lysate at 20 µg

Predicted band size: 24 kDa

Western blot - Anti-HMGB1 antibody (ab18256)

All lanes:
Western blot - Anti-HMGB1 antibody (ab18256) at 1 µg/mL

Lane 1:
Western blot - NIH/3T3 whole cell lysate (ab7179) at 10 µg

Lane 2:
MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate at 10 µg

Lane 3:
PC-12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate at 10 µg

Secondary

All lanes:
IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 24 kDa

Observed band size: 29 kDa, 59 kDa

Western blot - Anti-HMGB1 antibody (ab18256)

All lanes:
Western blot - Anti-HMGB1 antibody (ab18256) at 1 µg/mL

Lane 1:
HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 10 µg

Lane 2:
Western blot - Jurkat whole cell lysate (ab7899) at 10 µg

Lane 3:
Western blot - A-431 whole cell lysate (ab7909) at 10 µg

Lane 4:
Western blot - HEK-293 whole cell lysate (ab7902) at 10 µg

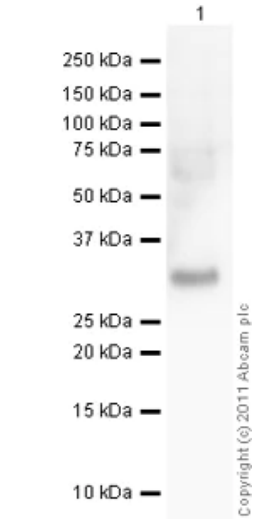
Secondary

All lanes:
IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 24 kDa

Observed band size: 29 kDa



Western blot - Anti-HMGB1 antibody (ab18256)

All lanes:
Western blot - Anti-HMGB1 antibody (ab18256) at 1 µg/mL

All lanes:
Recombinant Human HMGB1 protein (ab56525) at 0.01 µg

Secondary

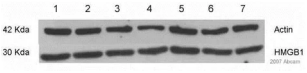
All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 24 kDa

Exposure time: 2min



This image is courtesy of a customer review

Western blot - Anti-HMGB1 antibody (ab18256)

All lanes:
Western blot - Anti-HMGB1 antibody (ab18256) at 1/1000 dilution

submitted by Dr Francesca Cerbai

Lane 1:
Rat brain whole tissue lysate - infused with asf for 1 week at 40 µg

Lane 2:
Rat brain whole tissue lysate - infused with LPS for 1 week at 40 µg

Lane 3:
Rat brain whole tissue lysate - infused with acsf for 8 weeks at 40 µg

Lane 4:
Rat brain whole tissue lysate - infused with LPS for 8 weeks at 40 µg

Lane 5:
Rat brain whole tissue lysate - infused with LPS for 4 weeks at 40 µg

Lane 6:
Rat brain whole tissue lysate -infused with LPS for 4 weeks, after 2 weeks of LPS infusion were treated with neramexane for the next 2 weeks at 40 µg

Lane 7:
Rat brain whole tissue lysate - infused with LPS for 4 weeks, after 2 weeks of LPS infusion were treated with memantine for the next 2 weeks. at 40 µg

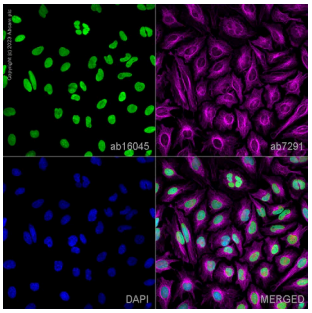
Secondary

All lanes:
Biotinylated Goat anti-rabbit IgG
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 24 kDa

Exposure time: 30s



Immunocytochemistry/ Immunofluorescence - Anti-HMGB1 antibody (ab18256)

ab18256 staining HMGB1 in HeLa cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab18256 at 1µg/ml and ab7291, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with ab150081, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and ab150120, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.