

Product datasheet

Anti-Histone H1.0 antibody [EPR6536] ab134914

KO **VALIDATED** Recombinant **RabMAb**

★★★★★ 1 Abreviews 6 References 5 Images

Overview

Product name	Anti-Histone H1.0 antibody [EPR6536]
Description	Rabbit monoclonal [EPR6536] to Histone H1.0
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to residues near the N terminus of Human Histone H1.0 (UniProt: P07305).
Positive control	WB: A431 and HeLa cell lysates; Human fetal kidney and BxPC3 cell lysates. IHC-P: Human colon tissue. ICC/IF: BxPC3 cells.

General notes

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 production

For more information [see here](#).

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

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR6536
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab134914** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	1/1000 - 1/10000. Predicted molecular weight: 21 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function Histones H1 are necessary for the condensation of nucleosome chains into higher-order structures. The H1F0 histones are found in cells that are in terminal stages of differentiation or that have low rates of cell division.

Sequence similarities Belongs to the histone H1/H5 family.
Contains 1 H15 (linker histone H1/H5 globular) domain.

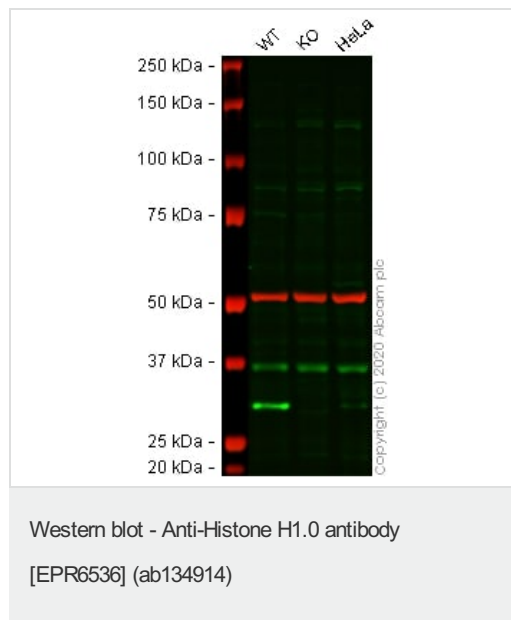
Post-translational modifications

Phosphorylated on Ser-17 in RNA edited version.

Cellular localization

Nucleus. Chromosome. The RNA edited version has been localized to nuclear speckles. During mitosis, it appears in the vicinity of condensed chromosomes.

Images



All lanes : Anti-Histone H1.0 antibody [EPR6536] (ab134914) at 1/1000 dilution

Lane 1 : Wild-type A431 cell lysate

Lane 2 : H1F0 knockout A431 cell lysate

Lane 3 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

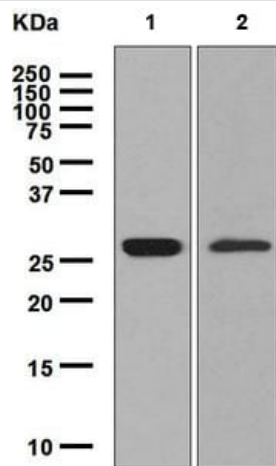
Predicted band size: 21 kDa

Observed band size: 30 kDa

[why is the actual band size different from the predicted?](#)

Lanes 1 - 3: Merged signal (red and green). Green - ab134914 observed at 30 kDa. Red - loading control, [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab134914 was shown to react with Histone H1.0 in wild-type A431 cells in Western blot. Loss of signal was observed when H1F0 knockout sample was used. Wild-type and H1F0 A431 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab134914 and [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Histone H1.0 antibody [EPR6536] (ab134914)

All lanes : Anti-Histone H1.0 antibody [EPR6536] (ab134914) at 1/1000 dilution

Lane 1 : Human fetal kidney lysate

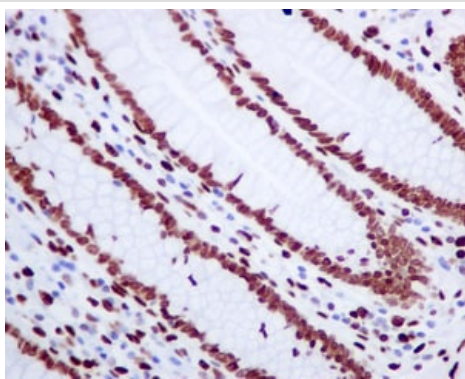
Lane 2 : BcPC3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

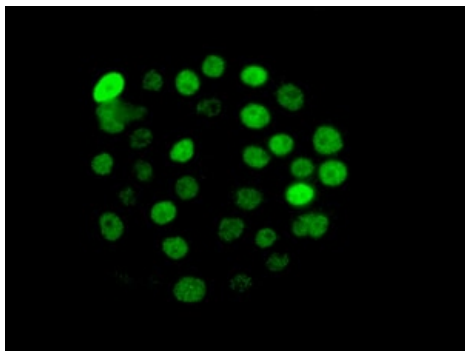
Predicted band size: 21 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.0 antibody [EPR6536] (ab134914)

Immunohistochemical analysis of Histone H1.0 in paraffin embedded Human colon tissue, using ab134914 at a 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Histone H1.0 antibody [EPR6536] (ab134914)

Immunofluorescent analysis of Histone H1.0 in BxPC3 cells, using ab134914 at a 1/100 dilution.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Histone H1.0 antibody [EPR6536] (ab134914)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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