

Anti-Histone H1.2 antibody ab17677

★★★★★ [5 Abreviews](#) [32 References](#) [5 Images](#)

Overview

Product name	Anti-Histone H1.2 antibody
Description	Rabbit polyclonal to Histone H1.2
Host species	Rabbit
Specificity	From Mar 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
Tested applications	Suitable for: ICC/IF, IP, WB
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in Human H1.2 Recombinant Protein. ICC/IF: HeLa cell line
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

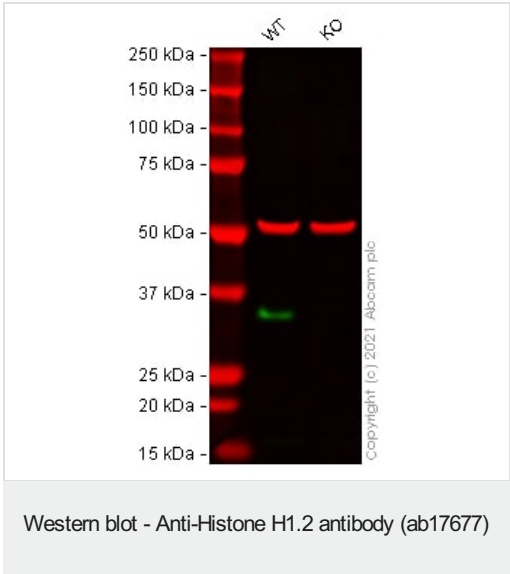
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab17677 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (3)	Use a concentration of 1 µg/ml.
IP		Use a concentration of 5 µg/ml.
WB	★★★★★ (2)	1/1000. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa).

Target

Function	Histones H1 are necessary for the condensation of nucleosome chains into higher order structures.
Sequence similarities	Belongs to the histone H1/H5 family. Contains 1 H15 (linker histone H1/H5 globular) domain.
Cellular localization	Nucleus. Chromosome.

Images



All lanes : Anti-Histone H1.2 antibody (ab17677) at 1/1000 dilution

- Lane 1** : Wild-type HeLa cell lysate
- Lane 2** : HIST1H1C knockout HeLa cell lysate

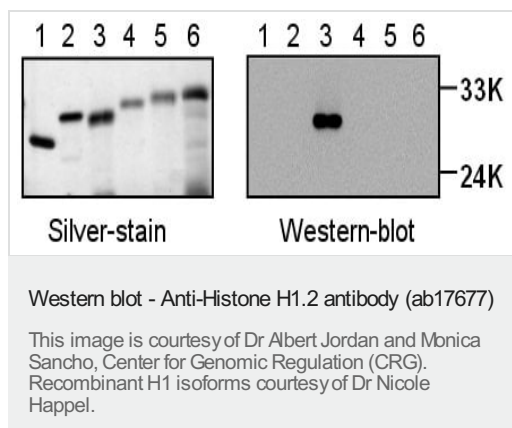
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 29 kDa
Observed band size: 32 kDa

False colour image of Western blot: Anti-Histone H1.2 antibody staining at 1/1000 dilution, shown in green; Mouse anti-Alpha

Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab17677 was shown to bind specifically to Histone H1.2. A band was observed at 32 kDa in wild-type HeLa cell lysates with no signal observed at this size in HIST1H1C knockout cell line [ab261794](#) (knockout cell lysate [ab257218](#)). To generate this image, wild-type and HIST1H1C knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



All lanes : Anti-Histone H1.2 antibody (ab17677) at 1/1000 dilution

Lane 1 : Recombinant histone H1

Lane 2 : Recombinant histone H1.1

Lane 3 : Recombinant histone H1.2

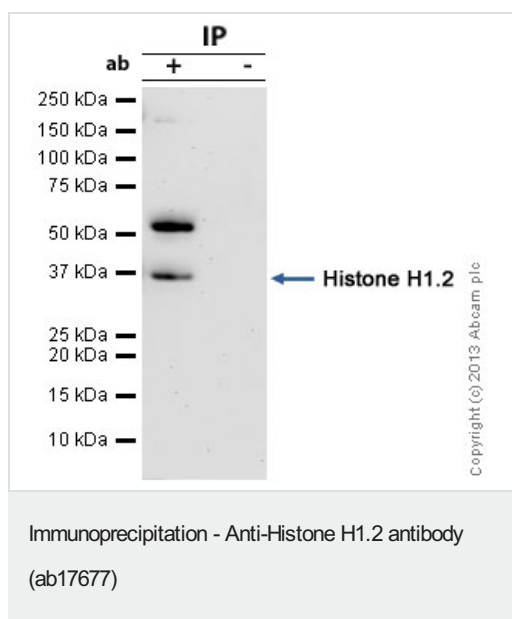
Lane 4 : Recombinant histone H1.3

Lane 5 : Recombinant histone H1.4

Lane 6 : Recombinant histone H1.5

Predicted band size: 29 kDa

Observed band size: 29 kDa



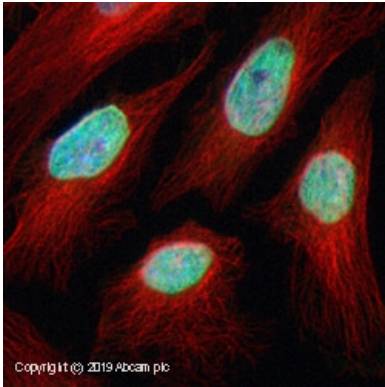
Histone H1.2 was immunoprecipitated using 0.5mg HeLa whole cell extract, 5µg of Rabbit polyclonal to Histone H1.2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, HeLa whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab17677.

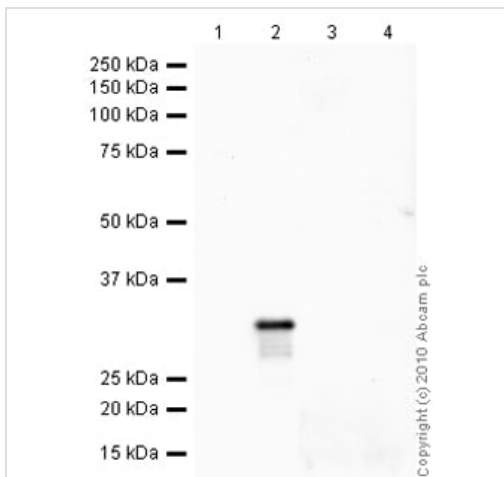
Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).

Band: 35kDa; Histone H1.2



Immunocytochemistry/ Immunofluorescence - Anti-Histone H1.2 antibody (ab17677)

ab17677 staining Histone H1.2 in HeLa cells. The cells were fixed with 100% methanol (5 min) at room temperature, permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Triton for 1h. The cells were then incubated with the antibody **ab16766** at 0.1 µg/ml and **ab7291** (Mouse monoclonal to alpha Tubulin - Loading Control) used at a 1/1000 dilution overnight at +4°C. The secondary antibodies were **ab150081**, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed, (pseudo-colored green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594) preadsorbed, (colored red), both used at a 1/1000 dilution for 1 hour at room temperature. DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43 µM for 1 hour at room temperature.



Western blot - Anti-Histone H1.2 antibody (ab17677)

All lanes : Anti-Histone H1.2 antibody (ab17677) at 1 µg/ml

Lane 1 : Histone H1 Recombinant Protein

Lane 2 : Histone H1.2 (Human) - Recombinant Protein

Lane 3 : Histone H1 Recombinant Protein with Human Histone H1.2 peptide (**ab18500**) at 1 µg/ml

Lane 4 : Histone H1.2 (Human) - Recombinant Protein with Human Histone H1.2 peptide (**ab18500**) at 1 µg/ml

Lysates/proteins at 0.1 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 29 kDa

Observed band size: 29 kDa

Exposure time: 12 minutes

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

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