abcam

ab279642

Anti-Histone H1.1 antibody [EPR23191-14] - 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	EPR23191-14
Purification technique	Affinity purification Protein A
Concentration	1.039 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

Not recommended

Species	Mouse, Rat, Synthetic peptide
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat, Synthetic peptide
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat, Synthetic peptide
Dilution info	-
Notes	-

Dot

Tested

Species	Synthetic peptide
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat, Synthetic peptide
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat, Synthetic peptide
Dilution info	-
Notes	-

Target data

See full target information H1-1

Function	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber (PubMed:11130728). Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers and promote formation of the H3K27me3 mark by the PRC2/EED-EZH2 complex (PubMed:11130728). Also acts as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab279642 is the carrier-free version of ab254394.

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

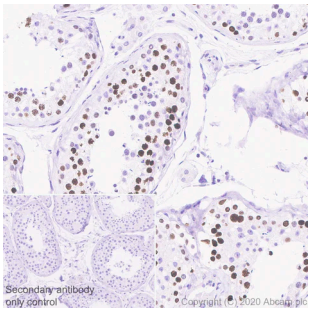
We do not recommend this combination. It is not covered by our product promise.

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.

6 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.1 antibody [EPR23191-14] - BSA and Azide free (ab279642)

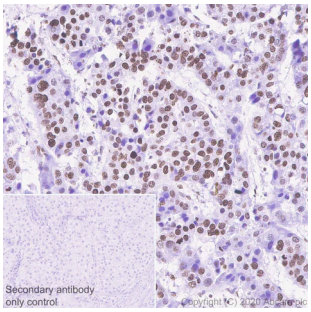
Histone H1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Histone H1.1 antibody

This data was developed using ab254394, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human testis tissue labelling Histone H1.1 with ab254394 at 1/2000 (0.342 ug/ml) dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer). Nuclear staining on human testis. The section was incubated with ab254394 overnight at 4°C. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

Heat mediated antigen retrieval using ab93678 (citrate buffer, pH 6.0).



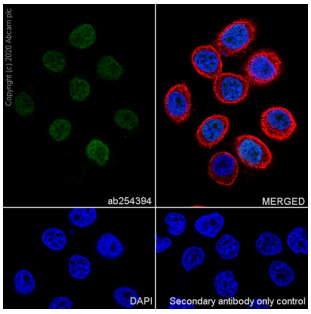
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.1 antibody [EPR23191-14] - BSA and Azide free (ab279642)

Histone H1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Histone H1.1 antibody

This data was developed using ab254394, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human hepatocelluar carcinoma tissue labelling Histone H1.1 with ab254394 at 1/2000 (0.342 ug/ml) dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Nuclear staining on human hepatocelluar carcinoma. The section was incubated with ab254394 overnight at 4°C. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using ab93678 (citrate buffer, pH 6.0).

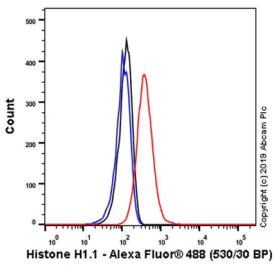


Immunocytochemistry/ Immunofluorescence - Anti-Histone H1.1 antibody [EPR23191-14] - BSA and Azide free (ab279642)

Histone H1.1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Histone H1.1 antibody

This data was developed using ab254394, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MDA-MB-468 cells labelling Histone H1.1 with ab254394 at 1/1000 (0.683 ug/ml) dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in MDA-MB-468 cells. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

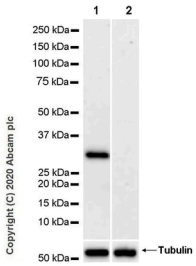
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Histone H1.1 antibody [EPR23191-14] - BSA and Azide free (ab279642)

Histone H1.1 Flow Cytometry (Intracellular) staining using rabbit Anti-Histone H1.1 antibody

This data was developed using ab254394, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized MDA-MB-468 (Human breast adenocarcinoma epithelial cell) cells labelling Histone H1.1 with ab254394 at 1/500 dilution (0.1ug)(Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-Histone H1.1 antibody [EPR23191-14] - BSA and Azide free (ab279642)

Histone H1.1 Western blot staining using rabbit Anti-Histone H1.1 antibody

This data was developed using 254394, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST.

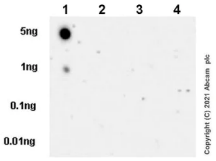
Low expression: MDA-MB-231.

Exposure time: 3 minutes.

All lanes:
Western blot - Anti-Histone H1.1 antibody [EPR23191-14] (ab254394) at 1/1000 dilution

Lane 1:
MDA-MB-468 (human breast adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 2:
MDA-MB-231 (human breast adenocarcinoma epithelial cell), whole cell lysate at 20 µg



Dot Blot - Anti-Histone H1.1 antibody [EPR23191-14] - BSA and Azide free (ab279642)

This data was developed using ab254394, the same antibody clone in a different buffer formulation.
Dot blot analysis of Histone H1.1 using ab254394 at 1/1000 (0.683 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate (ab97051) at 1/100,000 dilution.

Lane 1: Histone H1.1 peptide

Lane 2: Histone H1.2 peptide

Lane 3: Histone H1.3 peptide

Lane 4: Histone H1.4 peptide

Exposure time: 3 minutes.

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

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