

## Product datasheet

# Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] ab188294

Recombinant RabMAb

[1 References](#) [8 Images](#)

### Overview

<b>Product name</b>	Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087]
<b>Description</b>	Rabbit monoclonal [EPR18087] to Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> PepArr, IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HeLa treated with Colcemid acid extraction lysates; NIH/3T3 treated with 1.5µg /ml Colcemid for 12 hours whole cell lysates. IHC-P: Human, mouse and rat colon tissues. ICC/IF: HeLa cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR18087

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab188294 in the following tested applications.

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

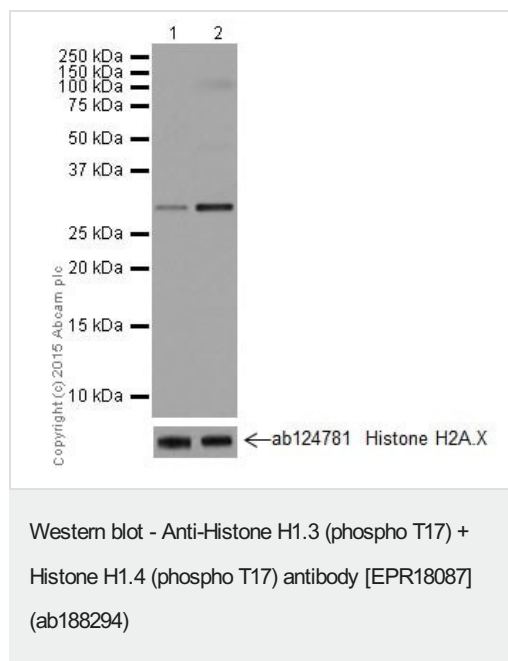
Application	Abreviews	Notes
PepArr		Use at an assay dependent concentration.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/8000.
WB		1/5000. Detects a band of approximately 30 kDa (predicted molecular weight: 22 kDa).

## Target

### Cellular localization

Histone H1.3: Nucleus. Chromosome. Histone H1.4: Nucleus. Chromosome.

## Images



**All lanes** : Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294) at 1/5000 dilution

**Lane 1** : Untreated HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysates

**Lane 2** : HeLa (Human epithelial cells from cervix adenocarcinoma) treated with Colcemid acid extraction lysates

Lysates/proteins at 10 µg per lane.

### Secondary

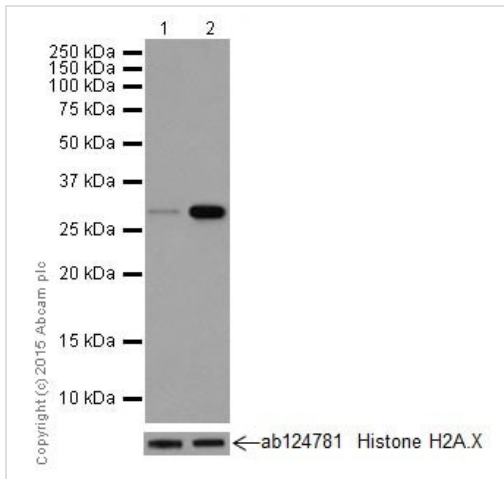
**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 22 kDa

**Observed band size:** 30 kDa

**Exposure time:** 5 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294)

**All lanes** : Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294) at 1/5000 dilution

**Lane 1** : Untreated NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysates

**Lane 2** : NIH/3T3 (Mouse embryo fibroblast cells) treated with 1.5µg/ml Colcemid for 12 hours whole cell lysates

Lysates/proteins at 10 µg per lane.

### Secondary

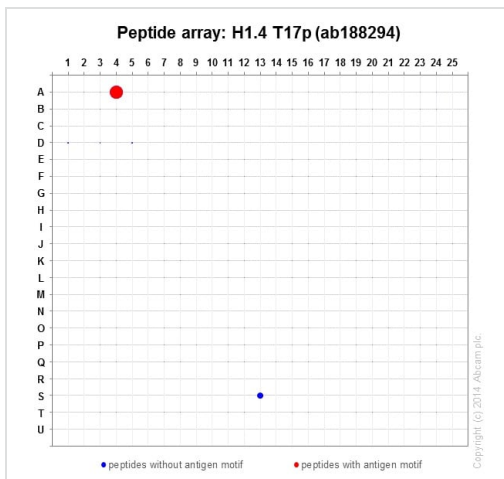
**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 22 kDa

**Observed band size:** 30 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

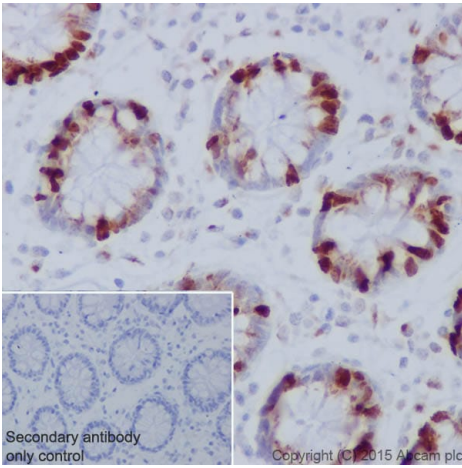


Peptide Array - Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294)

ab188294 was tested in Peptide array against 501 different modified and unmodified histone peptides; each peptide is printed on the array at six concentrations (each in triplicate).

Circle area represents affinity between the antibody and a peptide: all antigen-containing peptides are displayed as red circles, all other peptides as blue circles. The affinity is calculated as area under curve when antibody binding values are plotted against the corresponding peptide concentration. Each circle area is normalized to the peptide with the strongest affinity.

The complete dataset, including full list of all peptides and information on the position of each peptide in the diagram, can be downloaded [here](#).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294)

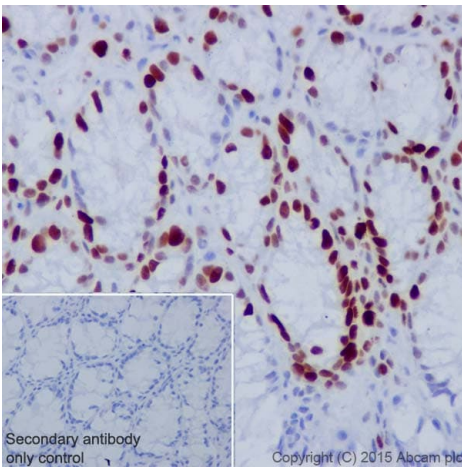
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) with ab188294 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Nucleus staining on epithelial cells of Human colon is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294)

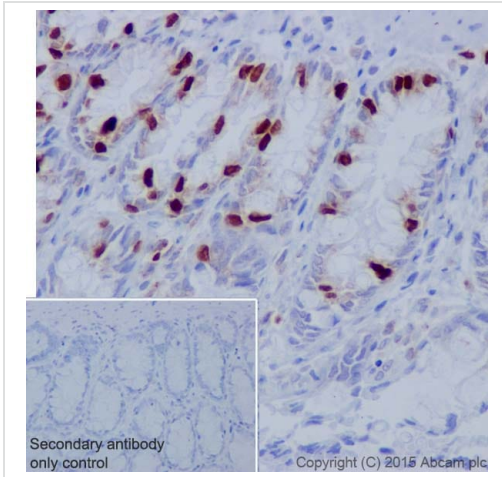
Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) with ab188294 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Nucleus staining on epithelial cells of mouse colon is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294)

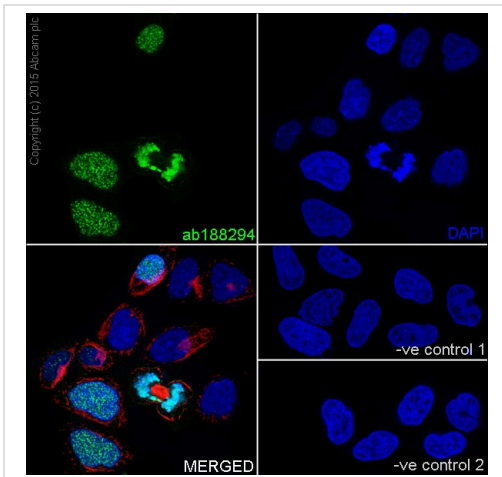
Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) with ab188294 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution.

Nucleus staining on epithelial cells of rat colon is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling Histone H1.3 (phospho T17) + Histone H1.4 (phospho T17) with ab188294 at 1/8000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green).

Confocal image showing nuclear staining on HeLa 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: ab188294 at 1/8000 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.

### 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 H1.3 (phospho T17) + Histone H1.4 (phospho T17) antibody [EPR18087] (ab188294)

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

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- Extensive multi-media technical resources to help you
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