


## Product datasheet

# Anti-Histone H1 antibody [r1415-1] ab218417

Recombinant

[5 Images](#)

### Overview

<b>Product name</b>	Anti-Histone H1 antibody [r1415-1]
<b>Description</b>	Mouse monoclonal [r1415-1] to Histone H1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Histone H1.
<b>Positive control</b>	IHC-P: Human tonsil and rat pancreas tissues; Flow Cyt and ICC/IF: HeLa cells.

### 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: 0.05% Sodium azide Constituents: 99% PBS, 0.05% BSA
<b>Purity</b>	Protein A/G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	r1415-1
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

### Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab218417 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
Flow Cyt		Use 1-2µg for 10 <sup>6</sup> cells.
ICC/IF		Use a concentration of 1 - 2 µg/ml.
IHC-P		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## Target

### Function

May play a key role in the control of gene expression during oogenesis and early embryogenesis, presumably through the perturbation of chromatin structure. Essential for meiotic maturation of germinal vesicle-stage oocytes. The somatic type linker histone H1c is rapidly replaced by H1oo in a donor nucleus transplanted into an oocyte. The greater mobility of H1oo as compared to H1c may contribute to this rapid replacement and increased instability of the embryonic chromatin structure. The rapid replacement of H1c with H1oo may play an important role in nuclear remodeling.

### Tissue specificity

Oocyte-specific.

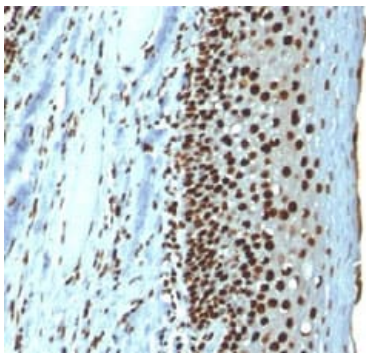
### Sequence similarities

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

### Cellular localization

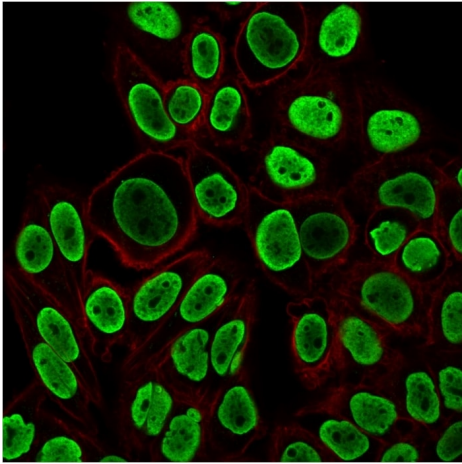
Cytoplasm. Nucleus. Chromosome.

## Images



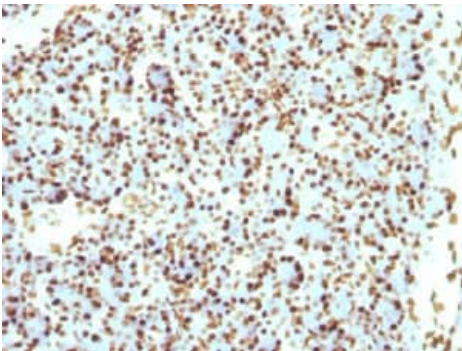
Immunohistochemical analysis of formalin fixed, paraffin embedded Human tonsil tissue labeling Histone H1 using ab218417 at 1 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1 antibody [r1415-1] (ab218417)



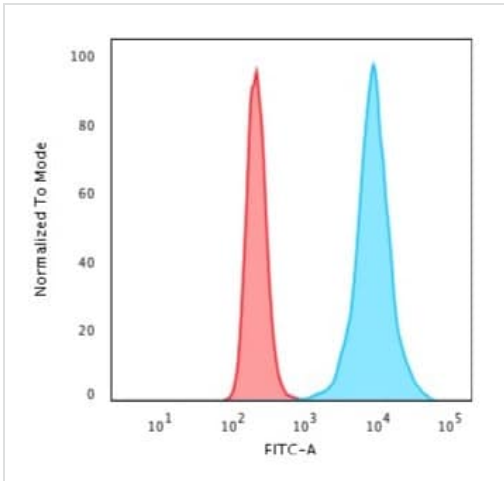
Immunocytochemistry/ Immunofluorescence - Anti-Histone H1 antibody [r1415-1] (ab218417)

Immunocytochemistry analysis of PFA-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Histone H1 with ab218417 followed by goat anti-Mouse IgG-CF488 (Green). Phalloidin (Red) is used to label cell membrane.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1 antibody [r1415-1] (ab218417)

Immunohistochemical analysis of formalin fixed, paraffin embedded rat pancreas tissue labeling Histone H1 using ab218417 at 1  $\mu\text{g/ml}$ .



Flow Cytometry analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Histone H1 with ab218417 followed by goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).

Flow Cytometry - Anti-Histone H1 antibody [r1415-1] (ab218417)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Histone H1 antibody [r1415-1] (ab218417)

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

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