

## Product datasheet

# Anti-Histone H1.3 antibody ab24174

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### Overview

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<b>Product name</b>	Anti-Histone H1.3 antibody
<b>Description</b>	Rabbit polyclonal to Histone H1.3
<b>Specificity</b>	Reacts with histone H1 acid-extracted from cell lines such as breast cancer cell line T47D. Also recognizes H1 in a nuclear extract or chromatin preparation, although additional unspecific bands also appear (between 40-55 kDa). This antibody is specific for Histone H1.3. H1.3 is present in many human cell lines.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide: LAPTIPAPAETKTPVKKKAKKAGATAGK -C , corresponding to N terminal amino acids 7-33 of Human Histone H1.3 <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Constituents: 8% Glycerol
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab24174** 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
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/50.
WB	★★★★☆	1/500 - 1/1000. Detects a band of approximately 27 kDa (predicted molecular weight: 22 kDa). H1.3 is present in many human cell lines. Cross-reacts with bands of approx. 52kDa and 45kDa in nuclear extracts of T47D cell line.

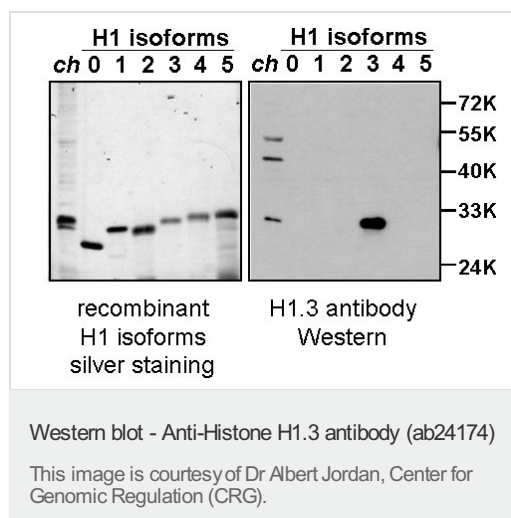
## Target

**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

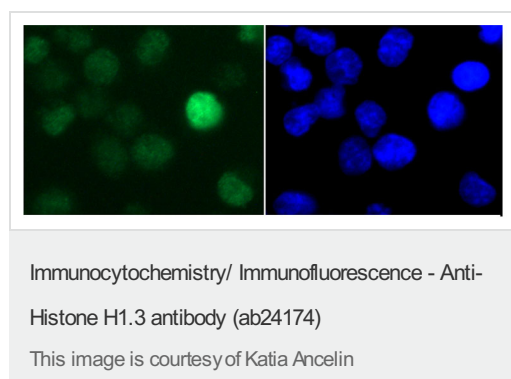


**Predicted band size : 22 kDa**

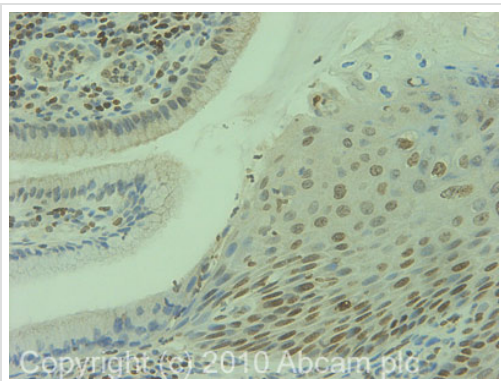
*This image is courtesy of Dr Albert Jordan, Center for Genomic Regulation (CRG).*

Rabbit polyclonal to Histone H1.3 against recombinant human H1 isoforms H1.0 to H1.5 as depicted in the figure or a chromatin preparation (ch) from a breast cancer cell line.

Notice that extra bands are present/detected in the chromatin preparation.



Human 293T cells fixed in 4% paraformaldehyde were immunostained with ab24174 (1/200) for Histone H1.3 and detected using FITC labelled anti-rabbit (Green). Nuclear DNA is stained blue with DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.3 antibody (ab24174)

IHC image of ab24174 staining in human cervical carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab24174, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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