

Product datasheet

Anti-Histone H1.3 antibody [EPR12683] ab183736

Recombinant RabMAb

[1 References](#) [7 Images](#)

Overview

Product name	Anti-Histone H1.3 antibody [EPR12683]
Description	Rabbit monoclonal [EPR12683] to Histone H1.3
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP Unsuitable for: ChIP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	T47-D, HeLa & Jurkat whole cell lysate (ab7899), Human cervix carcinoma tissue, HeLa & T47-D cells Flow: Hela ICC: T47-D cells, Hela IHC: Human cervix carcinoma tissue IP: HeLa
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12683

Isotype

IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183736 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

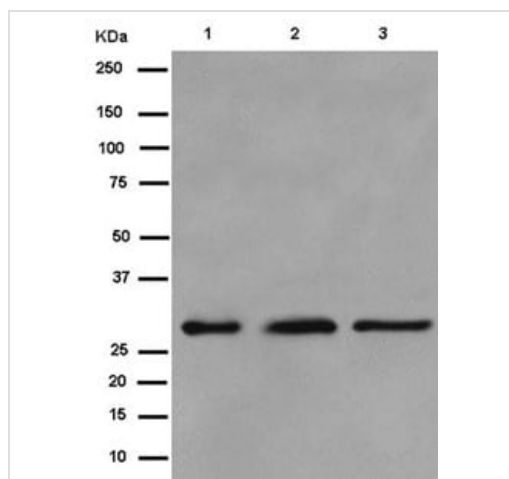
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 22 kDa.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/500.
IP		1/30.

Application notes Is unsuitable for ChIP.

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



Western blot - Anti-Histone H1.3 antibody [EPR12683] (ab183736)

All lanes : Anti-Histone H1.3 antibody [EPR12683] (ab183736) at 1/5000 dilution

Lane 1 : T-47D cell lysate

Lane 2 : Hela cell lysate

Lane 3 : Jurkat cell lysate

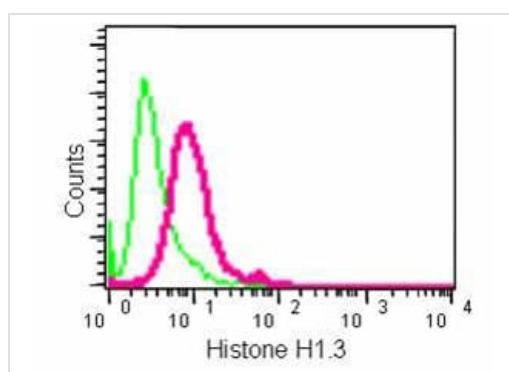
Lysates/proteins at 20 µg per lane.

Secondary

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

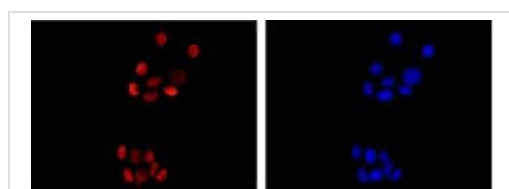
Predicted band size: 22 kDa

Blocking buffer: 5% NFDM/TBST



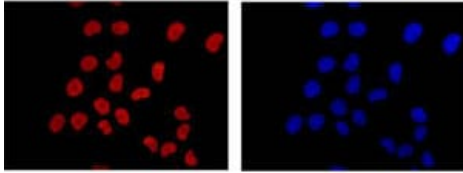
Flow Cytometry (Intracellular) - Anti-Histone H1.3 antibody [EPR12683] (ab183736)

Intracellular Flow Cytometry analysis of HeLa cells using ab183736 at 1/10 dilution. Secondary ab: Goat anti rabbit IgG (FITC) at 1/150 dilution. Fixative: 2% paraformaldehyde. Isotype control: Rabbit monoclonal IgG.



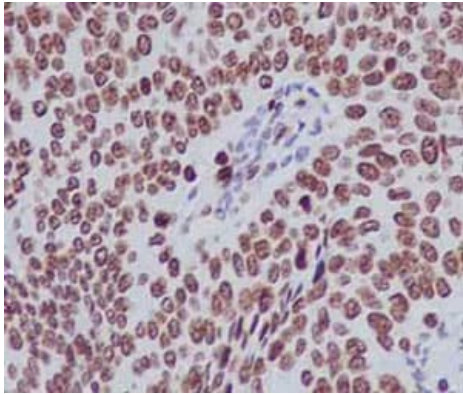
Immunocytochemistry/ Immunofluorescence - Anti-Histone H1.3 antibody [EPR12683] (ab183736)

Immunofluorescence analysis of T47-D cells labeling Histone H1.3 with ab183736 at 1/500 dilution. Secondary ab: Goat anti rabbit IgG (Alexa Fluor®555) at 1/200 dilution. Fixative: 4% paraformaldehyde. Counter stain: Dapi



Immunocytochemistry/ Immunofluorescence - Anti-Histone H1.3 antibody [EPR12683] (ab183736)

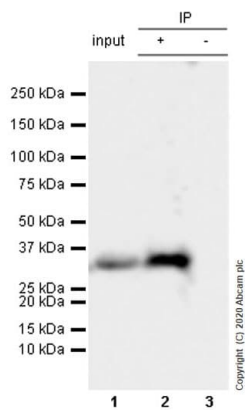
Immunofluorescence analysis of HeLa cells labeling Histone H1.3 with ab183736 at 1/500 dilution. Secondary ab: Goat anti rabbit IgG (Alexa Fluor®555) at 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.3 antibody [EPR12683] (ab183736)

Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling Histone H1.3 with ab183736 at 1/1000 dilution. Counter stain: Hematoxylin

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Histone H1.3 antibody [EPR12683] (ab183736)

Histone H1.3 was immunoprecipitated from 0.35 mg of HeLa (human cervical adenocarcinoma epithelial cell), whole cell lysate with ab183736 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab183736 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

Lane 1: Hela whole cell lysate 10 µg (Input).

Lane 2: ab183736 IP in Hela whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab183736 in Hela whole cell lysate.

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

Exposure time: 32 seconds.

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 antibody [EPR12683] (ab183736)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors