



Product datasheet

Anti-mH2A2 antibody ab246995

5 Images

Overview

Product name	Anti-mH2A2 antibody
Description	Rabbit polyclonal to mH2A2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human mH2A2 aa 150-300. Database link: Q9P0M6 <div>  Run BLAST with  Run BLAST with </div>
Positive control	IHC-P: Human cerebellum, endometrium and testis tissue. ICC/IF: U-2 OS cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab246995 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		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100

Target

Function

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. May be involved in stable X chromosome inactivation.

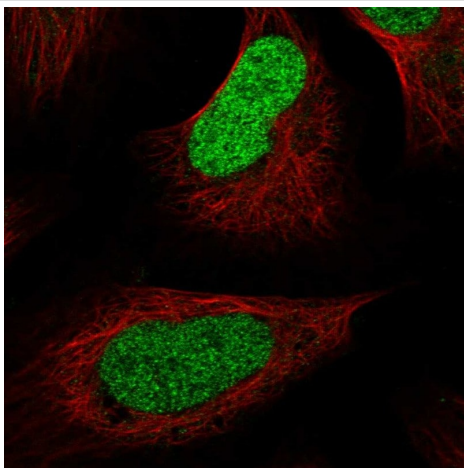
Sequence similarities

Contains 1 histone H2A domain.
Contains 1 Macro domain.

Cellular localization

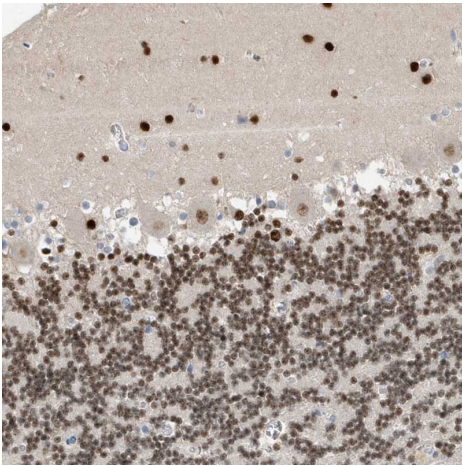
Nucleus. Chromosome. Enriched in inactive X chromosome chromatin and in senescence-associated heterochromatin.

Images



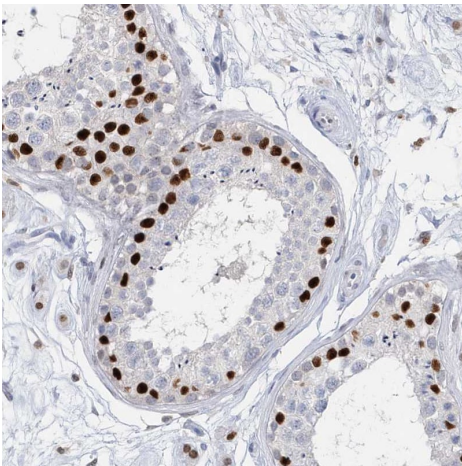
Immunocytochemistry/ Immunofluorescence - Anti-mH2A2 antibody (ab246995)

PFA-fixed, Triton X-100 permeabilized U-2 OS (human bone osteosarcoma epithelial cell line) cells stained for mH2A2 (green) using ab246995 at 4 µg/ml in ICC/IF.



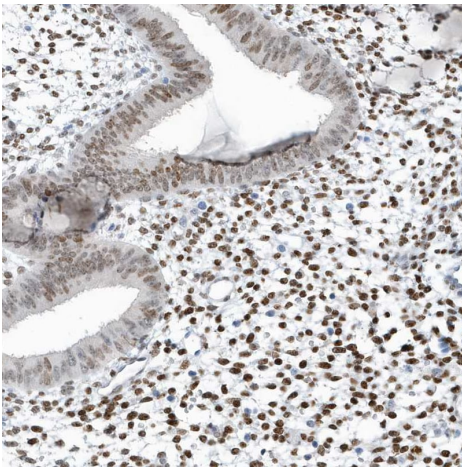
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mH2A2 antibody (ab246995)

Formalin-fixed, paraffin-embedded human cerebellum tissue stained for mH2A2 with ab246995 at a 1/500 dilution in immunohistochemical analysis.



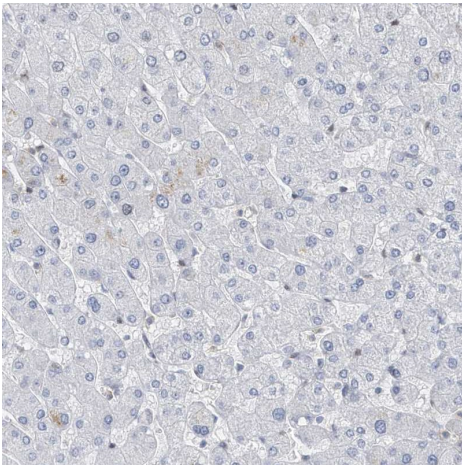
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mH2A2 antibody (ab246995)

Formalin-fixed, paraffin-embedded human testis tissue stained for mH2A2 with ab246995 at a 1/500 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human endometrium tissue stained for mH2A2 with ab246995 at a 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mH2A2 antibody (ab246995)



Formalin-fixed, paraffin-embedded human liver tissue shows absence of immunoreactivity for mH2A2 when incubated with ab246995 at a 1/500 dilution (negative control).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mH2A2 antibody (ab246995)

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

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