

Anti-Histone H2A.Z antibody [EPR6172] - CHIP Grade - BSA and Azide free ab248007

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Histone H2A.Z antibody [EPR6172] - CHIP Grade - BSA and Azide free
Description	Rabbit monoclonal [EPR6172] to Histone H2A.Z - CHIP Grade – BSA and Azide free
Host species	Rabbit
Specificity	This antibody is known to detect both isoforms of H2A.Z (H2A.Z.1 and H2A.Z.2).
Tested applications	Suitable for: WB, IHC-P, ChIP-sequencing Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: C6, Raw 264.7, PC-12, NIH/3T3, HeLa, HepG2, and Human thymus lysates; IHC-P: Human breast tissue; ChIP-seq: Chromatin from HeLa cells.
General notes	<p>ab248007 is the carrier-free version of ab124793.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6172
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab248007 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
WB		Use at an assay dependent concentration. Predicted molecular weight: 14 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended.
ChIP-sequencing		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Function	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. 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 the formation of constitutive heterochromatin. May be required for chromosome segregation during cell division.
Sequence similarities	Belongs to the histone H2A family.
Post-translational	Monoubiquitination of Lys-122 gives a specific tag for epigenetic transcriptional repression.

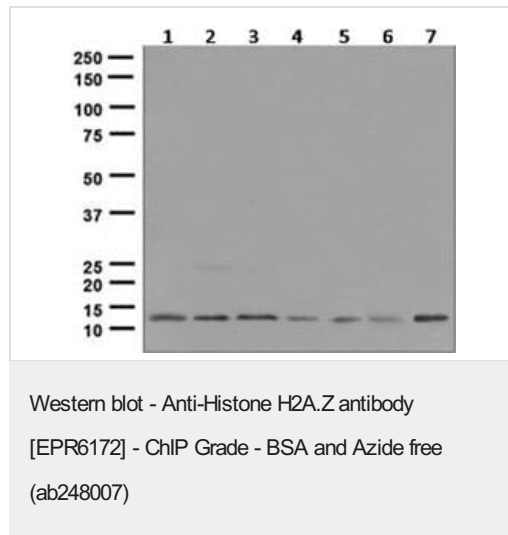
modifications

Acetylated on Lys-5, Lys-8 and Lys-12 during interphase. Acetylation disappears at mitosis.
Monomethylated on Lys-5 and Lys-8 by SETD6. SETD6 predominantly methylates Lys-8, lys-5 being a possible secondary site.
Not phosphorylated.

Cellular localization

Nucleus. Chromosome.

Images



All lanes : Anti-Histone H2A.Z antibody [EPR6172] - ChIP Grade (**ab124793**) at 1/1000 dilution

Lane 1 : C6 lysates

Lane 2 : Raw 264.7 lysates

Lane 3 : PC-12 lysates

Lane 4 : NIH/3T3 lysates

Lane 5 : HeLa lysates

Lane 6 : HepG2 lysates

Lane 7 : Human thymus lysates

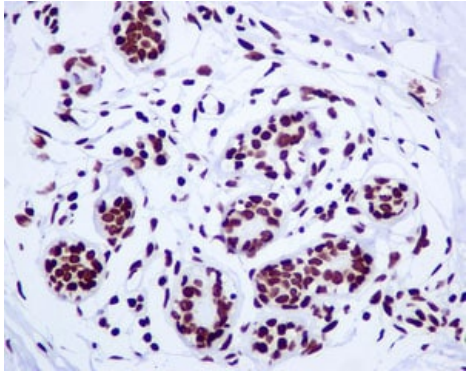
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 14 kDa

This data was developed using **ab124793**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H2A.Z antibody [EPR6172] - ChIP Grade - BSA and Azide free (ab248007)

This data was developed using **ab124793**, the same antibody clone in a different buffer formulation. **ab124793**, at a 1/250 dilution, staining Histone H2A.Z in paraffin embedded Human breast tissue by Immunohistochemistry. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Anti-Histone H2A.Z antibody [EPR6172] - ChIP Grade - BSA and Azide free (ab248007)

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

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