


Anti-Histone H2A.Z antibody [4A4] ab80150

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Overview

Product name	Anti-Histone H2A.Z antibody [4A4]
Description	Rat monoclonal [4A4] to Histone H2A.Z
Host species	Rat
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Recombinant fragment Predicted to work with: Mouse, Rat, Cow, Human, Pig, Xenopus laevis, Zebrafish, Orangutan 
Immunogen	Synthetic peptide corresponding to Human Histone H2A.Z.
Positive control	This antibody gave a positive signal when used to probe Histone H2A.Z recombinant protein.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	IgG fraction
Clonality	Monoclonal

Clone number	4A4
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab80150 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 a concentration of 1 µg/ml. Detects a band of approximately 17 kDa (predicted molecular weight: 13 kDa).

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

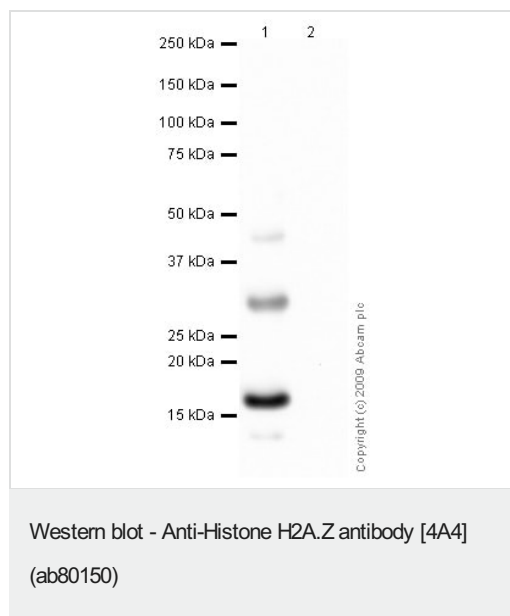
Function Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, 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 modifications Monoubiquitination of Lys-122 gives a specific tag for epigenetic transcriptional repression. 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 [4A4] (ab80150) at 1 µg/ml

Lane 1 : Histone H2A.Z recombinant protein

Lane 2 : Histone H2A recombinant protein

Lysates/proteins at 0.5 µg per lane.

Secondary

All lanes : Goat polyclonal to Rat IgG - H&L - Pre-Adsorbed (HRP) at 1/10000 dilution

Predicted band size: 13 kDa

Observed band size: 17 kDa

Additional bands at: 30 kDa. We are unsure as to the identity of these extra bands.

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

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