

Datasheet: AHP2258

Description:	RABBIT ANTI HISTONE H4 (Ac12)
Specificity:	HISTONE H4 Ac12
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			1/500

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species Synthetic Peptide

Species Cross Reactivity Reacts with: Human, Drosophila, Mouse
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form Serum - liquid

Antiserum Preparation Antisera to acetylated histone H4 were raised by repeated immunisation of rabbits with highly purified antigen.

Preservative Stabilisers <0.1% Sodium Azide (NaN₃)

External Database Links

UniProt:
[P62805](#) [Related reagents](#)

Entrez Gene:

[554313](#) HIST2H4B [Related reagents](#)

Synonyms	H4/A, H4/B, H4/C, H4/D, H4/E, H4/G, H4/H, H4/I, H4/J, H4/K, H4/M, H4/N, H4/O, H4F2, H4FA, H4FB, H4FC, H4FD, H4FE, H4FG, H4FH, H4FI, H4FJ, H4FK, H4FM, H4FN, H4FO, HIST2H4
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RRID	AB_10897654
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Specificity	Rabbit anti Histone H4 (Ac12) antibody recognizes Histone H4 acetylated at lysine 12. Histone H4 is a 102 amino acid ~12 kDa nuclear transcriptional regulator involved in DNA repair, replication and chromosome stability.
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References	<ol style="list-style-type: none">1. Turner, B.M. <i>et al.</i> (1989) Histone H4 acetylation in human cells. Frequency of acetylation at different sites defined by immunolabeling with site-specific antibodies. FEBS Lett. 253 (1-2): 141-5.2. Turner, B.M. <i>et al.</i> (1992) Histone H4 isoforms acetylated at specific lysine residues define individual chromosomes and chromatin domains in <i>Drosophila</i> polytene nuclei. Cell. 69 (2): 375-84.3. Belyaev, N. <i>et al.</i> (1996) Differential underacetylation of histones H2A, H3 and H4 on the inactive X chromosome in human female cells. Hum Genet. 97 (5): 573-8.4. Tsaprouni, L.G. <i>et al.</i> (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. J Inflamm (Lond). 8 (1): 1.5. Chen, W.Y. <i>et al.</i> (2000) Molecular mechanism for silencing virally transduced genes involves histone deacetylation and chromatin condensation. Proc Natl Acad Sci U SA. 97: 377-82.6. Friis, R.M. <i>et al.</i> (2009) A glycolytic burst drives glucose induction of global histone acetylation by picNuA4 and SAGA. Nucleic Acids Res. 37: 3969-80.7. Ito, K. <i>et al.</i> (2000) Glucocorticoid receptor recruitment of histone deacetylase 2 inhibits interleukin-1beta-induced histone H4 acetylation on lysines 8 and 12. Mol Cell Biol. 20: 6891-903.8. Kobor, M.S. <i>et al.</i> (2004) A protein complex containing the conserved Swi2/Snf2-related ATPase Swr1p deposits histone variant H2A.Z into euchromatin. PLoS Biol. 2: E131.9. Lin, X. <i>et al.</i> (2001) Reversal of GSTP1 CpG island hypermethylation and reactivation of pi-class glutathione S-transferase (GSTP1) expression in human prostate cancer cells by treatment with procainamide. Cancer Res. 61: 8611-6.10. Nie, M. <i>et al.</i> (2003) Transcriptional regulation of cyclooxygenase 2 by bradykinin and interleukin-1beta in human airway smooth muscle cells: involvement of different promoter elements, transcription factors, and histone h4 acetylation. Mol Cell Biol. 23: 9233-44.11. Tsaprouni, L.G. <i>et al.</i> (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. J Inflamm (Lond). 8: 1.12. Tabuchi, T.M. <i>et al.</i> (2011) Chromosome-biased binding and gene regulation by the <i>Caenorhabditis elegans</i> DRM complex. PLoS Genet. 7 (5): e1002074.
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Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10081 available at: 10081: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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