

Datasheet: AHP2258

**BATCH NUMBER 152629**

<b>Description:</b>	RABBIT ANTI HISTONE H4 (Ac12)
<b>Specificity:</b>	HISTONE H4 Ac12
<b>Format:</b>	Serum
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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

0.02% Sodium Azide (NaN<sub>3</sub>)

### External Database Links

**UniProt:**

**Entrez Gene:**

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

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<b>Synonyms</b>	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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<b>RRID</b>	AB_10897654
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<b>Specificity</b>	<b>Rabbit anti Histone H4 (Ac12) antibody</b> 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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<b>References</b>	<ol style="list-style-type: none"><li>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. <a href="#">FEBS Lett. 253 (1-2): 141-5.</a></li><li>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. <a href="#">Cell. 69 (2): 375-84.</a></li><li>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. <a href="#">Hum Genet. 97 (5): 573-8.</a></li><li>4. Tsaprouni, L.G. <i>et al.</i> (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. <a href="#">J Inflamm (Lond). 8 (1): 1.</a></li><li>5. Chen, W.Y. <i>et al.</i> (2000) Molecular mechanism for silencing virally transduced genes involves histone deacetylation and chromatin condensation. <a href="#">Proc Natl Acad Sci U SA. 97: 377-82.</a></li><li>6. Friis, R.M. <i>et al.</i> (2009) A glycolytic burst drives glucose induction of global histone acetylation by picNuA4 and SAGA. <a href="#">Nucleic Acids Res. 37: 3969-80.</a></li><li>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. <a href="#">Mol Cell Biol. 20: 6891-903.</a></li><li>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. <a href="#">PLoS Biol. 2: E131.</a></li><li>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. <a href="#">Cancer Res. 61: 8611-6.</a></li><li>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. <a href="#">Mol Cell Biol. 23: 9233-44.</a></li><li>11. Tsaprouni, L.G. <i>et al.</i> (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. <a href="#">J Inflamm (Lond). 8: 1.</a></li><li>12. Tabuchi, T.M. <i>et al.</i> (2011) Chromosome-biased binding and gene regulation by the <i>Caenorhabditis elegans</i> DRM complex. <a href="#">PLoS Genet. 7 (5): e1002074.</a></li></ol>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred.
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This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10081 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2258">https://www.bio-rad-antibodies.com/SDS/AHP2258</a> 10081
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)  
'M364163:200529'

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