

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.
Product Form	Serum - liquid
Antiserum Preparation	Antisera to acetylated histone H4 were raised by repeated immunisation of rabbits with highly purified antigen.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
External Database Links	<p>UniProt: P62805 Related reagents</p> <p>Entrez Gene: 554313 HIST2H4B Related reagents</p>
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
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.

References

1. Turner, B.M. *et al.* (1989) Histone H4 acetylation in human cells. Frequency of acetylation at different sites defined by immunolabelling with site-specific antibodies. [FEBS Letters 253: 141-145.](#)
2. Turner, B.M. *et al.* (1992) Histone H4 isoforms acetylated at specific lysine residues define individual chromosomes and chromatin domains in Drosophila polytene nuclei. [Cell 69: 375-384.](#)
3. Belyaev, N.D. *et al.* (1996) Differential underacetylation of histones H2A, H3 and H4 on the inactive X chromosome in human female cells. [Hum. Genet. 97: 573-578.](#)
4. Tsaprouni, L.G. *et al.* (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. [J Inflamm \(Lond\). 8: 1.](#)
5. Chen, W.Y. *et al.* (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. *et al.* (2009) A glycolytic burst drives glucose induction of global histone acetylation by picNuA4 and SAGA. [Nucleic Acids Res. 37: 3969-80.](#)
7. Ito, K. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. [J Inflamm \(Lond\). 8: 1.](#)

Storage

Store at +4°C or at -20°C if preferred.

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet documentation #10081 available at
<https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M293274:160816'

Printed on 04 Oct 2017

© 2017 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)