

Datasheet: AHP418

Description:	RABBIT ANTI HISTONE H4 (ACETYLATED)
Specificity:	HISTONE H4 ACETYLATED
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/400
Immunoprecipitation	▪			
Western Blotting	▪			1/800
Immunofluorescence	▪			1/200
Chromatin Immunoprecipitation	▪			

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: Drosophila, Yeast, Human, Arabidopsis, Mouse, Zebrafish, Wheat, Asellus aquaticus Based on sequence similarity, is expected to react with: Mammals, Plants, Amphibia 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	0.02% Sodium Azide
Immunogen	KLH-conjugated peptide acetylated at lysines 5,8,12,16: NSGRGAcKGGAcKGLGAcKGGAAcKRHYCC.

**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

Specificity

Rabbit anti Histone H4 (Acetylated) antibody was raised against the tetra-acetylated form of histone H4 and recognizes all acetylated isoforms of histone H4.

References

1. Turner, B.M. *et al.* (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. *et al.* (1992) Histone H4 isoforms acetylated at specific lysine residues define individual chromosomes and chromatin domains in Drosophila polytene nuclei. [Cell. 69 \(2\): 375-84.](#)
3. Belyaev, N. *et al.* (1996) Differential underacetylation of histones H2A, H3 and H4 on the inactive X chromosome in human female cells. [Hum Genet. 97 \(5\): 573-8.](#)
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6. Tsaprouni, L.G. *et al.* (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. [J Inflamm \(Lond\). 8: 1.](#)
7. Tian, L. and Chen, Z.J. (2001) Blocking histone deacetylation in Arabidopsis induces pleiotropic effects on plant gene regulation and development. [Proc Natl Acad Sci U S A. 98: 200-5.](#)
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13. Santos, A.P. *et al.* (2002) The architecture of interphase chromosomes and gene positioning are altered by changes in DNA methylation and histone acetylation. [J Cell Sci. 115: 4597-605.](#)
14. Barzotti, R. *et al.* (2006) DNA methylation, histone H3 methylation, and histone H4 acetylation in the genome of a crustacean. [Genome. 49: 87-90.](#)
15. Vega-Flores, G. *et al.* (2014) The GABAergic septohippocampal pathway is directly involved in internal processes related to operant reward learning. [Cereb Cortex. 24 \(8\): 2093-107.](#)
16. Dincman, T.A. *et al.* (2016) Histone deacetylase inhibition is cytotoxic to oligodendrocyte precursor cells *in vitro* and *in vivo*. [Int J Dev Neurosci. 54: 53-61.](#)

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.
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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 (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
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 America	Tel: +1 800 265 7376 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
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