

Datasheet: AHP418 BATCH NUMBER 166113

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. 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 Preparatio	n Antisera to acetylated histone H4 were raised by repeated implicitly purified antigen.	munisation of rabbits with
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)	
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	
	Neidled reagents	
Synonyms	H4/A, H4/B, H4/C, H4/D, H4/E, H4/G, H4/H, H4/I, H4/J, H4/K, H4FA, H4FB, H4FC, H4FD, H4FE, H4FG, H4FH, H4FI, H4FJ H4FO, HIST2H4	
RRID	AB_2116715	
Specificity	Rabbit anti Histone H4 (Acetylated) antibody was raised ag form of histone H4 and recognizes acetylated isoforms of history	•
References	1. Turner, B.M. <i>et al.</i> (1989) Histone H4 acetylation in human acetylation at different sites defined by immunolabeling with si Lett. 253 (1-2): 141-5.	• •
	2. Turner, B.M. <i>et al.</i> (1992) Histone H4 isoforms acetylated a define individual chromosomes and chromatin domains in Dro 69 (2): 375-84.	•
	3. Collas, P. <i>et al.</i> (1999) Active transgenes in zebrafish are el H4 and dynamically associate with RNA Pol II and splicing collo45-54.	<u> </u>
	4. Tian, L. and Chen, Z.J. (2001) Blocking histone deacetylatic pleiotropic effects on plant gene regulation and development. 98: 200-5.	•
	5. Lin, X. et al. (2001) Reversal of GSTP1 CpG island hyperm of pi-class glutathione S-transferase (GSTP1) expression in h by treatment with procainamide. Cancer Res. 61: 8611-6.	•
	6. Nye, A.C. <i>et al.</i> (2002) Alteration of large-scale chromatin s receptor. Mol Cell Biol. 22: 3437-49.	tructure by estrogen
	7. Santos, A.P. et al. (2002) The architecture of interphase chi	romosomes and gene
	positioning are altered by changes in DNA methylation and his 115: 4597-605.	stone acetylation. <u>J Cell Sci.</u>
	8. Perry, P. et al. (2004) A dynamic switch in the replication tin	ning of key regulator genes
	in embryonic stem cells upon neural induction. Cell Cycle. 3 (
	O Catley M.C. at al. (2004) labilities of matrix binary C (DK)	O\ + + +

9. Catley, M.C. et al. (2004) Inhibitors of protein kinase C (PKC) prevent activated

transcription: role of events downstream of NF-kappaB DNA binding. J Biol Chem. 279: 18457-66.

- 10. Beck, H.C. et al. (2006) Quantitative proteomic analysis of post-translational modifications of human histones. Mol Cell Proteomics. 5: 1314-25.
- 11. Barzotti, R. et al. (2006) DNA methylation, histone H3 methylation, and histone H4 acetylation in the genome of a crustacean. Genome. 49: 87-90.
- 12. Foy, R.L. et al. (2008) Role of Jade-1 in the histone acetyltransferase (HAT) HBO1 complex. J Biol Chem. 283: 28817-26.
- 13. Tsaprouni, L.G. et al. (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. J Inflamm (Lond). 8: 1.
- 14. 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.

Further Reading

1. 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.

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.

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	
Health And Safety	Material Safety Datasheet documentation #10081 available at:	

Information

https://www.bio-rad-antibodies.com/SDS/AHP418 10081

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Sheep Anti Rabbit IgG (STAR35...) **RPE**

Goat Anti Rabbit IgG (H/L) (STAR124...) HRP

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South Tel: +1 800 265 7376 America

Tel: +44 (0)1865 852 700 Worldwide

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody sales uk@bio-rad.com

Email: antibody sales de@bio-rad.com

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