

Datasheet: AHP962

Description:	RABBIT ANTI HISTONE H4 (Ac5)
Specificity:	HISTONE H4 Ac5
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	▪			1/1000
Immunoprecipitation	▪			
Western Blotting	▪			1/600
Immunofluorescence	▪			1/400
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

Based on sequence similarity, is expected to react with: Mammals, Amphibia, Plants
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)

Immunogen

Ovalbumin-conjugated peptide: NSGRGAcKGGKGLCc.

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

RRID

AB_567394

Specificity

Rabbit anti Histone H2 (Ac5) antibody recognizes Histone H4 when acetylated at lysine 5.

References

1. 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.](#)
2. 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.](#)
3. 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.](#)
4. Lacoste, N. *et al.* (2002) Disruptor of telomeric silencing-1 is a chromatin-specific histone H3 methyltransferase. [J Biol Chem. 277: 30421-4.](#)
5. 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.](#)
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7. Nie, M. *et al.* (2005) beta2-Adrenoceptor agonists, like glucocorticoids, repress eotaxin gene transcription by selective inhibition of histone H4 acetylation. [J Immunol. 175: 478-86.](#)
8. Spada, F. *et al.* (2005) Histone H4 post-translational modifications in chordate mitotic and endoreduplicative cell cycles. [J Cell Biochem. 95: 885-901.](#)
9. McManus, K.J. *et al.* (2006) The transcriptional regulator CBP has defined spatial associations within interphase nuclei. [PLoS Comput Biol. 2: e139.](#)
10. Auger, A. *et al.* (2008) Eaf1 is the platform for NuA4 molecular assembly that evolutionarily links chromatin acetylation to ATP-dependent exchange of histone H2A variants. [Mol Cell Biol. 28: 2257-70.](#)

11. Tsaprouni, L.G. *et al.* (2011) Differential patterns of histone acetylation in inflammatory bowel diseases. [J Inflamm \(Lond\). 8 \(1\): 1.](#)
12. Krogan, N.T. *et al.* (2012) APETALA2 negatively regulates multiple floral organ identity genes in Arabidopsis by recruiting the co-repressor TOPLESS and the histone deacetylase HDA19. [Development. 139: 4180-90.](#)
13. Havasi, A. *et al.* (2013) Histone Acetyl Transferase (HAT) HBO1 and JADE1 in Epithelial Cell Regeneration. [Am J Pathol. 182: 152-62.](#)

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 Information Material Safety Datasheet documentation #10081 available at: <https://www.bio-rad-antibodies.com/SDS/AHP962>
10081

Regulatory For research purposes only

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 \(STAR209P\)](#)

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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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