

## Datasheet: AHP962

<b>Description:</b>	RABBIT ANTI HISTONE H4 (Ac5)
<b>Specificity:</b>	HISTONE H4 Ac5
<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
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.

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**Preservative Stabilisers**

<0.1% Sodium Azide (NaN<sub>3</sub>)

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**Immunogen**

Ovalbumin-conjugated peptide: NSGRGAcKGGKGLCc.

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**External Database Links****UniProt:**

[P62805](#)

[Related reagents](#)

**Entrez Gene:**

[554313](#)

HIST2H4B

[Related reagents](#)

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**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

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**RRID**

AB\_567394

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**Specificity**

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

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**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.](#)
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8. Spada, F. *et al.* (2005) Histone H4 post-translational modifications in chordate mitotic and endoreduplicative cell cycles. [J Cell Biochem. 95: 885-901.](#)
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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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10081 available at: <https://www.bio-rad-antibodies.com/SDS/AHP962>  
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**Regulatory** For research purposes only

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## 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** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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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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