OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

SP2099 Polyclonal Antibody to Histone H4 (acetylated) - Serum

Alternate names: H4/A, H4FA, HIST1H4

Quantity: 0.1 ml

Background: Histone proteins H3, H4, H2A, and H2B function as building blocks to package eukaryotic DNA into repeating nucleosome units that are folded in higher order chromatin fibers. The nucleosome is composed of an octamer containing a H3/H4 tetramer and two H2A/H2B dimers, surrounded by approximately 146 base pairs of DNA. A diverse and elaborate array of post-translational modifications including acetylation, phosphorylation, methylation, ubiquitination, and ADP-ribosylation occurs on the N-terminal tail domains of histones.

Uniprot ID: P62805

NCBI: NP_001029249.1

GeneID: 121504

Host: Rabbit

Immunogen: KLH-conjugated peptide acetylated at lysines 5,8,12,16
AA Sequence:
NSGRGAcKGGAcKGLGAcKGGAAcKRHYCC

Format: **State:** Liquid serum
Preservatives: 0,09% sodium azide

Applications: **ELISA**: 1/400.
Immunoprecipitation.
Western Blot: 1/800.
Immunofluorescence: 1/200.
Chromatin Immunoprecipitation.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects Acetylated isoforms of histone H4.
Species: Drosophila, Yeast, Mammals, Plants, Amphibia.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Munks RJ, Moore J, O'Neill LP, Turner BM. Histone H4 acetylation in Drosophila. Frequency of acetylation at different sites defined by immunolabelling with site-specific antibodies. FEBS Lett. 1991 Jun 24;284(2):245-8. PubMed PMID: 2060643.
2. Turner BM, Birley AJ, Lavender J. Histone H4 isoforms acetylated at specific lysine residues define individual chromosomes and chromatin domains in Drosophila polytene nuclei. Cell. 1992 Apr 17;69(2):375-84. PubMed PMID: 1568251.
3. Belyaev N, Keohane AM, Turner BM. Differential underacetylation of histones H2A,

H3 and H4 on the inactive X chromosome in human female cells. Hum Genet. 1996 May;97(5):573-8. PubMed PMID: 8655133.