

Histone H4 (MonoMethyl-K16) polyclonal antibody

Human, Mouse, Rat, Bovine, Catalog: **BS67396** Host: Rabbit **Reactivity:** Chicken, Pig **BackGround: Molecular Weight:** The nucleosome, made up of four core histone proteins ~ 11 kDa (H2A, H2B, H3, and H4), is the primary building block **Swiss-Prot:** of chromatin. Originally thought to function as a static P62805 scaffold for DNA packaging, histones have now been **Purification&Purity:** shown to be dynamic proteins, undergoing multiple types of post-translational modifications, including acetylation, matography. phosphorylation, methylation, and ubiquitination. His-**Applications:** tone acetylation occurs mainly on the amino-terminal tail WB (1/500 - 1/1000) domains of histones H2A (Lys5), H2B (Lys5, 12, 15, and **Storage&Stability:** 20), H3 (Lys9, 14, 18, 23, 27, 36, and 56), and H4 (Lys5, Store at $4 \, \mathbb{C}$ short term. Aliquot and store at $-20 \, \mathbb{C}$ long 8, 12, and 16) and is important for the regulation of histerm. Avoid freeze-thaw cycles. tone deposition, transcriptional activation, DNA replica-**Specificity:** tion, recombination, and DNA repair. Hyper-acetylation of the histone tails neutralizes the positive charge of these at MonoMethyl-K16 protein. domains and is believed to weaken histone-DNA and nu-**DATA:** cleosome-nucleosome interactions, thereby destabilizing C kDa в chromatin structure and increasing the accessibility of 70 DNA to various DNA-binding proteins . In addition, 45 35 acetylation of specific lysine residues creates docking 25 sites for a protein module called the bromodomain, which 20 15 binds to acetylated lysine residues . Many transcription and chromatin regulatory proteins contain bromodomains and may be recruited to gene promoters, in part, through Western blot analysis of Histone H4 (MonoMethyl-K16) expression in binding of acetylated histone tails. Histone acetylation is DLD (A), LOVO (B), U2OS (C) whole cell lysates. mediated by histone acetyltransferases (HATs), such as CBP/p300, GCN5L2, PCAF, and Tip60, which are recruited to genes by DNA-bound protein factors to facili-(450nn tate transcriptional activation . Deacetylation, which is bsorbanc mediated by histone deacetylases (HDAC and sirtuin proteins), reverses the effects of acetylation and generally

Product:

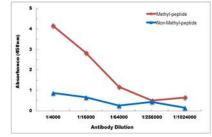
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

facilitates transcriptional repression.

Bioworld Technology, Inc.	
Add:	1660 South Highway 100, Suite 500 St. Louis Park,
	MN 55416,USA.
Email:	info@bioworlde.com
Tel:	6123263284
Fax:	6122933841

The antibody was purified by immunogen affinity chro-

Recognizes endogenous levels of Histone H4 with a site



Note:

For research use only, not for use in diagnostic procedure.

Bioworld technology, co. Ltd. No 9, weidi road Qixia District Nanjing, 210046, Add: P. R. China. **Email:** info@biogot.com Tel: 0086-025-68037686 0086-025-68035151 Fax: