

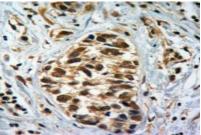
Histone H4 (MonoMethyl-K5) polyclonal antibody

Human, Mouse, Rat, Bovine, Catalog: **BS67395** 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 The antibody was purified by immunogen affinity chroof 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), IHC (1/50 - 1/200) 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 Recognizes endogenous levels of Histone H4 with a site of the histone tails neutralizes the positive charge of these at MonoMethyl-K5 protein. domains and is believed to weaken histone-DNA and nu-**DATA:** cleosome-nucleosome interactions, thereby destabilizing chromatin structure and increasing the accessibility of 72 DNA to various DNA-binding proteins . In addition, 55 acetylation of specific lysine residues creates docking sites for a protein module called the bromodomain, which 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-K5) expression in binding of acetylated histone tails. Histone acetylation is Hela (A) 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 facilitate transcriptional activation . Deacetylation, which is mediated by histone deacetylases (HDAC and sirtuin proteins), reverses the effects of acetylation and generally facilitates transcriptional repression.

Product:

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

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



Immunohistochemical analysis of Histone H4 (MonoMethyl-K5) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval

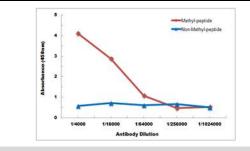
Bioworld technology, co. Ltd. Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China. **Email:** info@biogot.com Tel: 0086-025-68037686 0086-025-68035151 Fax:



PRODUCT DATA SHEET

Bioworld Technology,Inc.

with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Note:

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

Bioworld Technology, Inc.		Bioworld technology, co. Ltd.	
Add:	1660 South Highway 100, Suite 500 St. Louis Park,	Add: No 9, weidi road Qixia District Nanjing, 21004	46,
	MN 55416,USA.	P. R. China.	
Email:	info@bioworlde.com	Email: <u>info@biogot.com</u>	
Tel:	6123263284	Tel: 0086-025-68037686	
Fax:	6122933841	Fax: 0086-025-68035151	