## abcam

### **Product datasheet**

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# Histone H3 (pan-methyl K9) Quantification Kit (Colorimetric) ab115066

产品名称	Histone H3 (pan-methyl K9) Quantification试剂盒(Colorimetric)			
检 <b>测方法</b>	Colorimetric			
样品类型	Tissue, Adherent cells, Suspension cells			
检测类型	Quantitative			
灵敏度	1 ng/well			
范围	20 ng/well - 5000 ng/well			
检测时间	2h 30m			
<b>种属反</b> 应性	与反应: Mouse, Human			
	预测可用于: Mammals 🛛 📤			
产 <b>品概述</b>	Methylation of histone H3 at lysine 9 by ESET, G9a among other methyl transferases is involved in euchromatin gene silencing as well as heterochromatin formation. H3 (mono-methyl K9) is enriched in certain euchromatic domains, which have been postulated to be transcriptionally silent. H3 (di-methyl K9) and H3 (tri-methyl K9) mediate heterochromatin formation by forming a binding site for HP1 and also participate in silencing gene expression at euchromatic sites. Histone H3 (pan-methyl K9) Quantification Kit (Colorimetric) (ab115066) allows the user to specifically measure global mono-, di-, and tri-methylation of histone H3-K9 colorimetrically using a variety of mammalian cells including fresh and frozen tissues, cultured adherent and suspension cells.			
平台性能	Microplate reader			
存放说明	Please refer to protocols.			
组 <b>件</b>		标识符	96 tests	
10X Wash Buffer			1 x 20ml	
8-Well Sample Strips (with Frame)			1 x 9 units	

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8-Well Standard Control Strips

1 x 3 units

组 <b>件</b>		标识符	96 tests
Antibody Buffer			1 x 12ml
Color Developer			1 x 10ml
Detection Antibody, 1 mg/mL			1 x 10µl
Standard Control, 100 µg/mL			1 x 20µl
Stop Solution			1 x 6ml
功能	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.		
序列相似性	Belongs to the histone H3 family.		
发 <b>展</b> 阶 <b>段</b>	Expressed during S phase, then expression strongly decreases as cell division slows down during the process of differentiation.		
翻译后修饰			

isoform 1, RPS6KA5 or AURKB during mitosis or upon ultraviolet B irradiation. Phosphorylation at Thr-7 (H3T6ph) by PRKCBB is a specific tag for epigenetic transcriptional activation that prevents demethylation of Lys-5 (H3K4me) by LSD1/KDM1A. At centromeres, specifically phosphorylated at Thr-12 (H3T11ph) from prophase to early anaphase, by DAPK3 and PKN1. Phosphorylation at Thr-12 (H3T11ph) by PKN1 is a specific tag for epigenetic transcriptional activation that promotes demethylation of Lys-10 (H3K9me) by KDM4C/JMJD2C. Phosphorylation at Tyr-42 (H3Y41ph) by JAK2 promotes exclusion of CBX5 (HP1 alpha) from chromatin. Monoubiquitinated by RAG1 in lymphoid cells, monoubiquitination is required for V(D)J recombination (By similarity). Ubiquitinated by the CUL4-DDB-RBX1 complex in response to ultraviolet irradiation. This may weaken the interaction between histones and DNA and facilitate DNA accessibility to repair proteins. Mucleus. Chromosome.

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