SunLong Biotech Co.,LTD
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[Primary Antibody]

Mouse Anti-Histone H3 (tri methyl K9 , phospho S10)antibody

Catalog Number: SLM-60164M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	G5E7
Target:	Histone H3 (tri methyl K9, phospho S10)
Purification:	Antigen affinity purification
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat)
Subcellular Location:	The nucleus
Background:	Histone post-translational modifications (PTMs) are a key mechanism by which Epigenetics regulates chromatin structure, known as the "histone code". Post-translational modifications on histones include acetylation, methylation, phosphorylation, and some novel acylation modifications discovered in recent years. These histone modifications directly affect the binding of chromatin to transcription factors or other epigenetic regulators, altering genome stability and gene transcription, etc. Histone methylation usually occurs on lysine and arginine residues of core histones. Histone methylation can either promote or inhibit gene transcription, depending on whether the histone methylation occurs on lysine or arginine and on the number of methyl groups (lysine can undergo mono-, di-, and tri-methylation; arginine can undergo mono-, symmetric, and asymmetric di-methylation). Histone lysine methylation usually occurs on lysines 4, 9, 27, 36, and 79 of histone H3 and lysine 20 of histone H4; arginine methylation usually occurs on arginines 2, 8, 17, and 26 of histone H3 and arginine 3 of histone H4.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Protein methyltransferases (HMT) and histone demethylases (HDM) are the main regulators of methylation modifications.

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