

Hisne H3 (tri methyl K9) Antibody

Catalog No: #HW217

Package Size: #HW217-1 50ul #HW217-2 100ul

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Description

Product Name	Hisne H3 (tri methyl K9) Antibody
Host Species	Mouse
Clone No.	2G1
Purification	ProA affinity purified
Applications	WB, IF
Species Reactivity	Human
Immunogen Description	Amino acids 6-16 of Histone H3 trimethylated at Lysine 9 of human origin.
Conjugates	Unconjugated
Modification	Methyl
Accession No.	Swiss-Prot#:P68431
Calculated MW	11kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:100-1:1,000

Background

Eukaryotic histones are basic and water soluble nuclear proteins that form hetero-octameric nucleosome particles by wrapping 146 base pairs of DNA in a left-handed super-helical turn sequentially to form chromosomal fibers. Two molecules of each of the four core histones (H2A, H2B, H3 and H4) form the octamer, which is comprised of two H2A-H2B dimers and two H3-H4 dimers, forming two nearly symmetrical halves by tertiary structure. Histones are subject to posttranslational modification by enzymes primarily on their N-terminal tails, but also in their globular domains. Human Histone H3 is subject to trimethylation at Lys 9, a modification that may be necessary for select DNA transactions or chromatin state transitions.

References

1. Chang, Q., Zhang, Y., Beezhold, K.J., Bhatia, D., Zhao, H., Chen, J., Castranova, V., Shi, X. and Chen, F. 2008. Sustained JNK1 activation is associated with altered Histone H3 methylations in human liver cancer. *J. Hepatol.* E-published.
2. Jin, Y., Rodriguez, A.M. and Wyrick, J. 2008. Genetic and genome-wide analysis of simultaneous mutations in acetylated and methylated lysine residues in Histone H3 in *Saccharomyces cerevisiae*. *Genetics* E-published.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.