SunLong Biotech Co.,LTD
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[Primary Antibody]

Recombinant Rabbit Anti-H3C1 Monoclonal Antibody

Catalog Number: SLA1049M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	3C4
GeneID:	8968
SWISS:	Q71DI3
Target:	H3C1
Immunogen:	KLH conjugated synthesised methylpeptide derived from human Histone H3 around the methylation site of Tri Methyl K9
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ChIP (1μg/IP) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human,Mouse,Rat
Predicted MW.:	15 kDa
Subcellular Location:	Nucleus
Background:	Modulation of the chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. The N-terminal tail of core histones undergoes different posttranslational modifications including acetylation, phosphorylation and methylation. These modifications occur in response to cell signal stimuli and have a direct effect on gene expression. In most species, the histone H2B is primarily acetylated at lysines 5, 12, 15 and 20. Histone H3 is primarily acetylated at lysines 9, 14, 18

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	and 23. Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis.

[VALIDATION IMAGES]

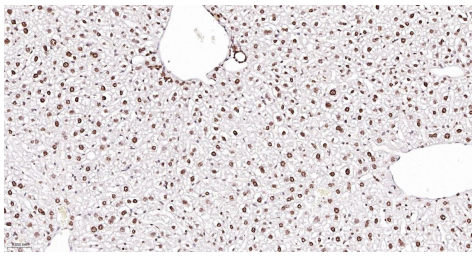


Figure 1. Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

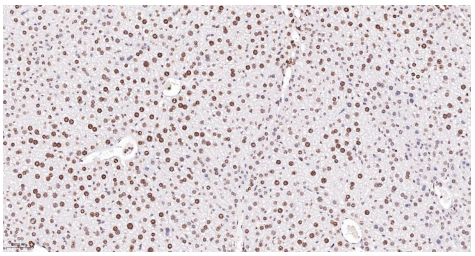


Figure 2. Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

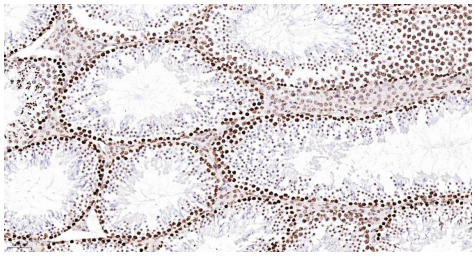


Figure 3. Paraformaldehyde-fixed, paraffin embedded Mouse Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

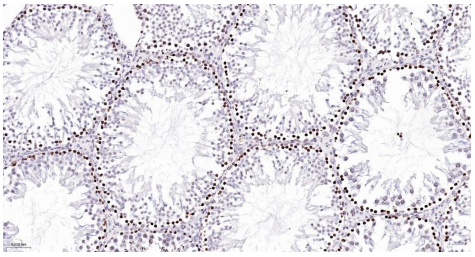


Figure 4. Paraformaldehyde-fixed, paraffin embedded Rat Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

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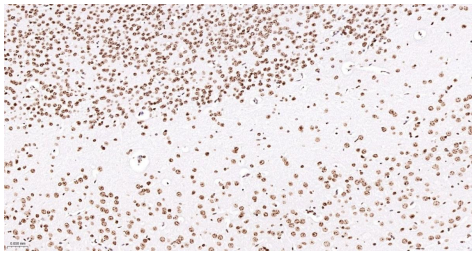


Figure 5. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

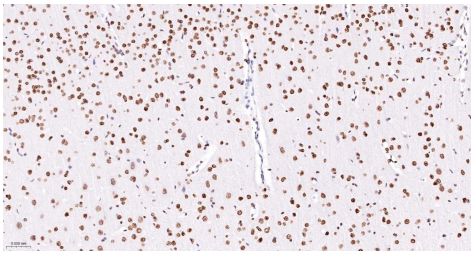


Figure 6. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

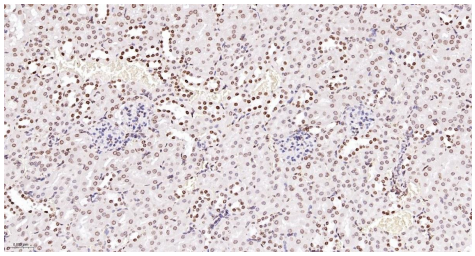


Figure 7. Paraformaldehyde-fixed, paraffin embedded Mouse Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

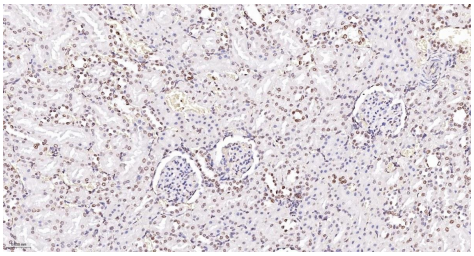


Figure 8. Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

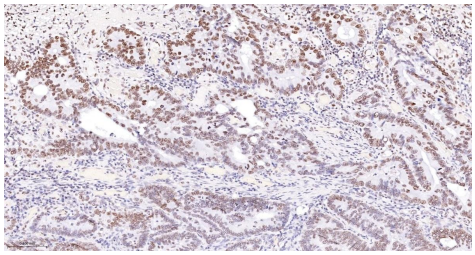


Figure 9. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

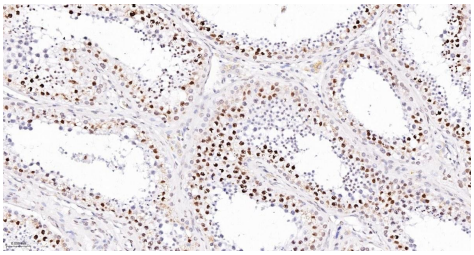


Figure 10. Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

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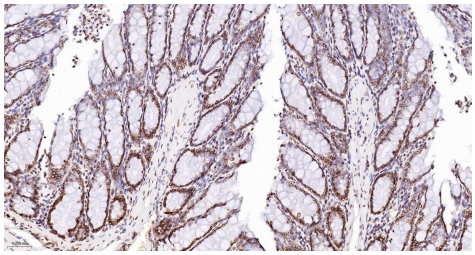


Figure 11. Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

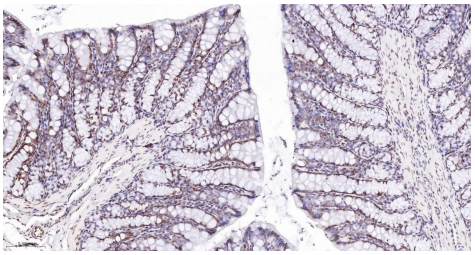


Figure 12. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

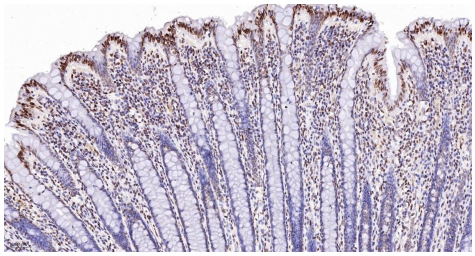


Figure 13. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

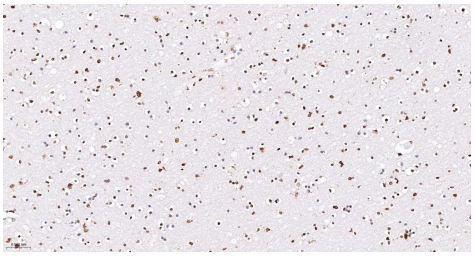


Figure 14. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

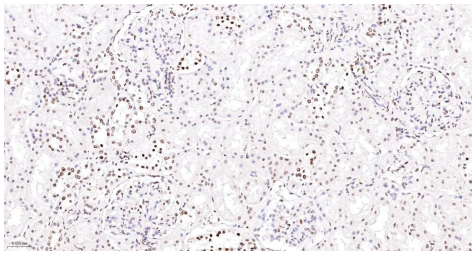


Figure 15. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with H3C1 | Histone H3 (me3-K9) Monoclonal Antibody, Unconjugated (SLA1049M) at 1:200 overnight at 4°C, followed by incubation with SL0295G-HRP and DAB (C-0010) staining

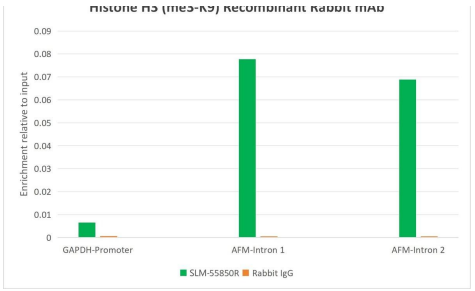


Figure 16. Chromatin immunoprecipitation was performed using cross-linked chromatin from 5×10⁶ HeLa cells per IP, with 1 µg of SLA1049M antibody or 1 µg of normal rabbit IgG(negative control SL0295P), and 20 µL of Protein A/G MagBeads per IP. The immunoprecipitated DNA was quantified by real-time PCR using primers specific for the human GAPDH promoter, AFM -intron 1 and AFM -intron 2 regions. The data are presented as enrichment of each sample relative to the total amount of input at each amplicon
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