SunLong Biotech Co.,LTD
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[Primary Antibody]

Recombinant Rabbit Anti-H3C1 Monoclonal Antibody

Catalog Number: SLA0829M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	7A1
GeneID:	8350
SWISS:	P68431
Target:	H3C1
Immunogen:	KLH conjugated synthesised phosphopeptide derived from human Histone H3 around the phosphorylation site of Ser10
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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) IHC-P (1:50-200) IHC-F (1:50-200) IF (1:50-200) ICC/IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human,Mouse,Rat
Predicted MW.:	17 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

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	lysines 5, 12, 15 and 20. Histone H3 is primarily acetylated at lysines 9, 14, 18 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]

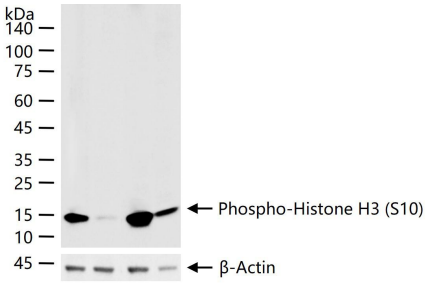


Figure 1. C6 (R) cells were treated with or without calyculin A (100nM) for 30 min,Hela (H) cells were treated with or without calyculin A (100nM) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with Phospho-Histone H3 monoclonal antibody, unconjugated (SLA0829M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

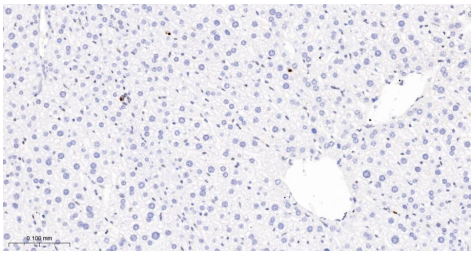


Figure 2. Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

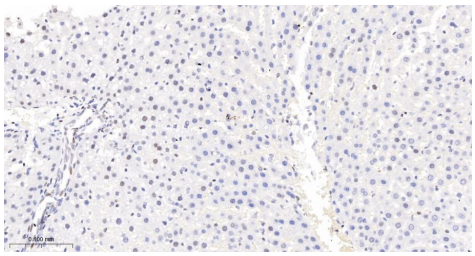


Figure 3. Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

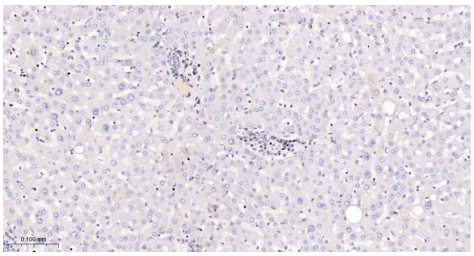


Figure 4. Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

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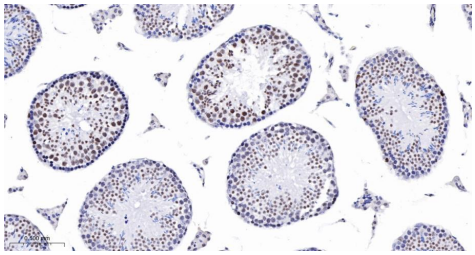


Figure 5. Paraformaldehyde-fixed, paraffin embedded Mouse Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

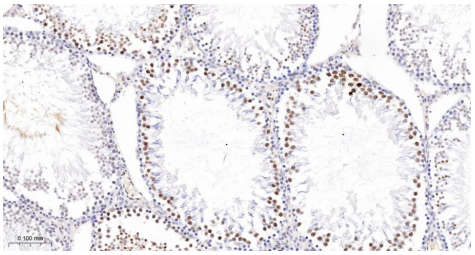


Figure 6. Paraformaldehyde-fixed, paraffin embedded Rat Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

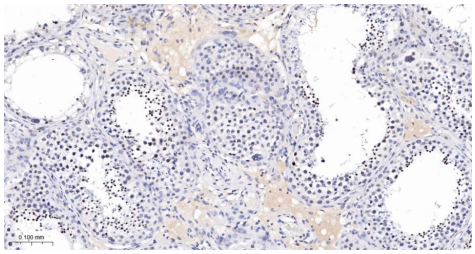


Figure 7. Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

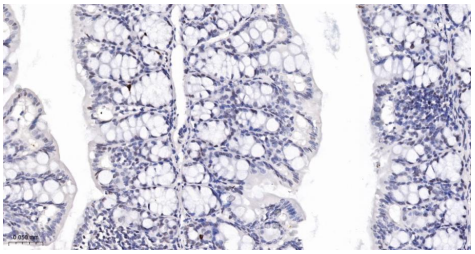


Figure 8. Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

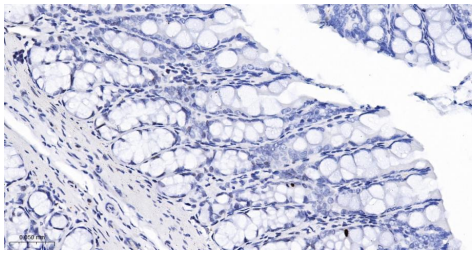


Figure 9. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

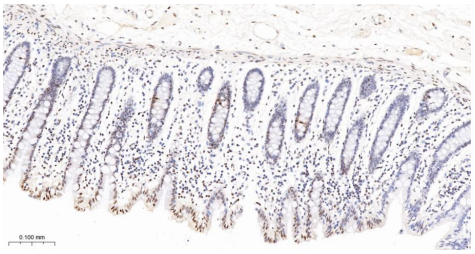


Figure 10. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

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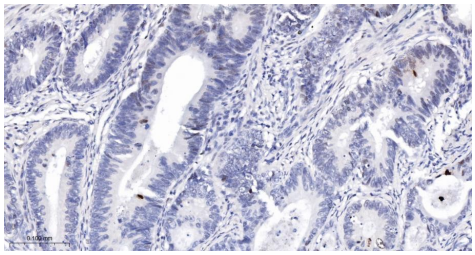


Figure 11. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

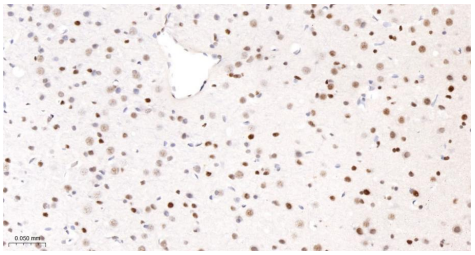


Figure 12. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

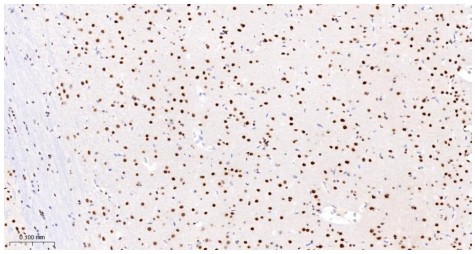


Figure 13. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

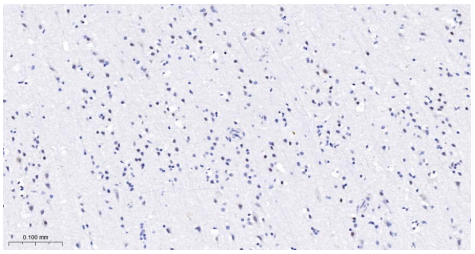


Figure 14. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

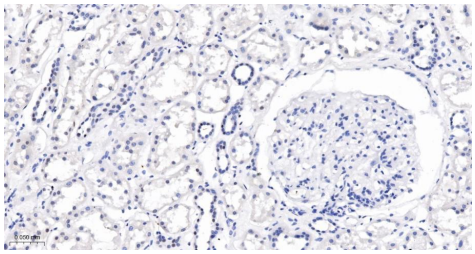


Figure 15. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Phospho-Histone H3 (S10) Monoclonal Antibody, Unconjugated (SLA0829M) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining.

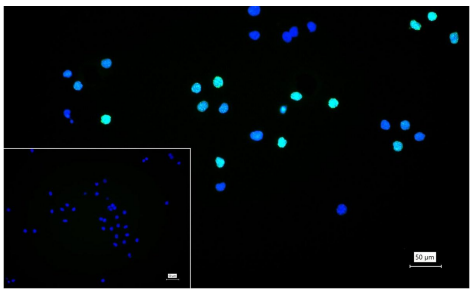


Figure 16. 4% Paraformaldehyde-fixed Hela (treated with 100ng/ml of nocodazole for 18 h) (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Phospho-Histone H3 (S10)) monoclonal Antibody, unconjugated (SLA0829M) 1:100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Rabbit IgG antibody (green, SL60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.
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