SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Mono/Di-Methyl-Histone H3 (Lys79)antibody

Catalog Number: SLM-60208R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	G1C6
Target:	Mono/Di-Methyl-Histone H3 (Lys79)
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 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:1000-5000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1:50-200) ICC/IF (1:100-500) IP (1:25-1:50) ChIP (5μg/IP) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human,Mouse,Rat
Subcellular Location:	The nucleus
Background:	Histone post-translational modifications (PTMs) are a key mechanism by which epigenetics regulates chromatin structure and are 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, and change 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,

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	depending on whether histone methylation occurs on lysine or arginine and the number of methyl groups (lysine can undergo mono-, di- and tri-methylation, and arginine can undergo mono-, symmetric and asymmetric di-methylation). Histone lysine methylation usually occurs on lysine 4, 9, 27, 36 and 79 of histone H3 and lysine 20 of histone H4; arginine methylation usually occurs on arginine 2, 8, 17 and 26 of histone H3 and arginine 3 of histone H4. Protein methyltransferases (HMT) and histone demethylases (HDM) are the main regulatory factors of methylation modifications.

[VALIDATION IMAGES]

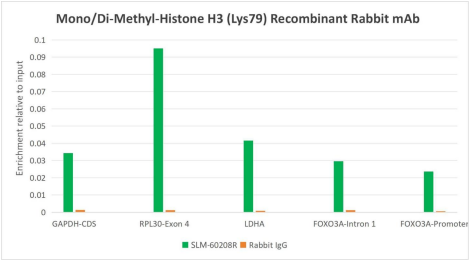


Figure 1. Chromatin immunoprecipitation was performed using cross-linked chromatin from 5×10⁶ HeLa cells per IP, with 5 µg of SLM-60208R antibody or 5 µg of normal rabbit IgG(negative control SL0295P), and 20 µL of Protein A/G MagBeads per IP. The immunoprecipitated DNA was quantified by real-time PCR using primers specific for the human GAPDH-CDS, RPL30 exon 4, LDHA, FOXO3A-intron 1 and FOXO3A-promoter regions. The data are presented as enrichment of each sample relative to the total amount of input at each amplicon

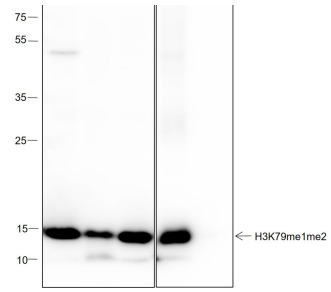


Figure 2. Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:5000 Primary ab incubation condition: 2 hours at room temperature Secondary ab: Goat Anti-Rabbit IgG H&L (HRP) Lysate: 1: HeLa, 2: NIH-3T3, 3: BRL, 4: Mouse brain, 5: Recombinant histone H3 (20ng) Protein loading quantity: 20 µg Exposure time: 10 s Predicted MW: 15 kDa Observed MW: 15 kDa

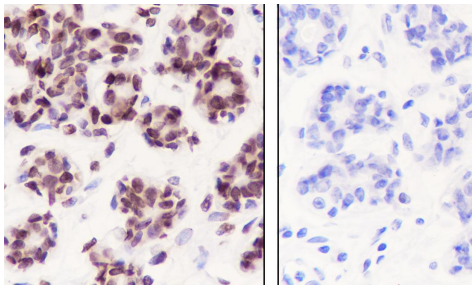


Figure 3. Tissue: Human breast Section type: Formalin fixed & Paraffin - embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:1000 Primary ab incubation condition: 1 hour at room temperature Secondary ab:SP Kit(Rabbit) (sp-0023) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for SLM-60208R

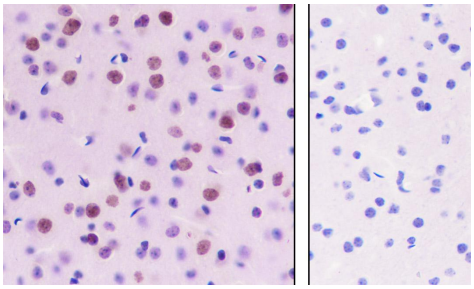


Figure 4. Tissue: Mouse cerebrum Section type: Formalin fixed & Paraffin - embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:1000 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Rabbit) (sp-0023) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for SLM-60208R

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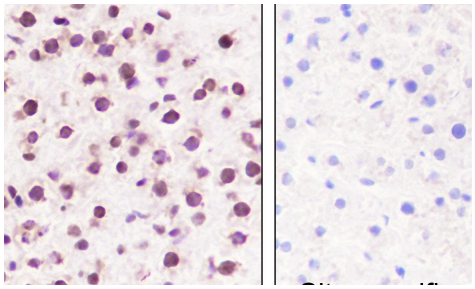


Figure 5. Tissue: Rat liver Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:1000 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Rabbit) (sp-0023) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for SLM-60208R

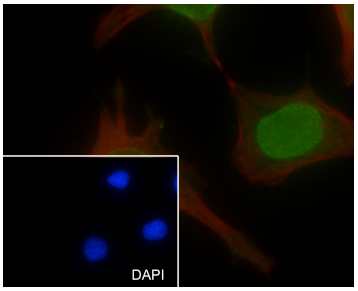


Figure 6. Cell line: HeLa Fixative: 100% Ice-cold methanol Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Primary incubation condition: 4°C overnight Secondary ab: Goat Anti-Rabbit IgG Nuclear counter stain: DAPI (Blue) Counter stain: Tubulin (Red) Comment: Color green is the positive signal for SLM-60208R

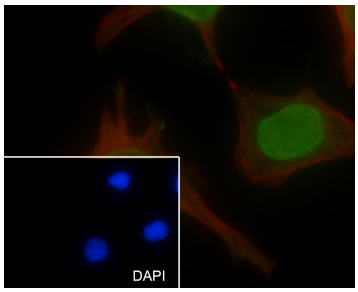


Figure 7. Cell line: HeLa Fixative: 100% Ice-cold methanol Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Primary incubation condition: 4°C overnight Secondary ab: Goat Anti-Rabbit IgG Nuclear counter stain: DAPI (Blue) Counter stain: Tubulin (Red) Comment: Color green is the positive signal for SLM-60208R

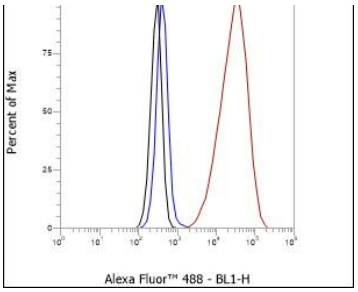


Figure 8. Cell line: HeLa Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Secondary ab: Goat anti Rabbit IgG Unlabelled control: The cell without incubation with primary antibody and secondary antibody (Black line). Isotype control: Rabbit monoclonal IgG (Blue line). Comment: Line red is the positive signal for SLM-60208R

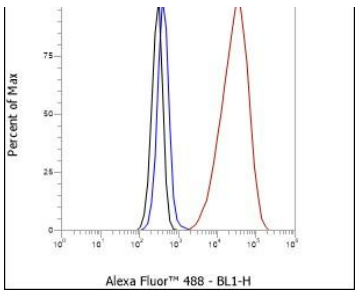


Figure 9. Cell line: HeLa Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Secondary ab: Goat anti Rabbit IgG Unlabelled control: The cell without incubation with primary antibody and secondary antibody (Black line). Isotype control: Rabbit monoclonal IgG (Blue line). Comment: Line red is the positive signal for SLM-60208R

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