

Mono-Methyl-Histone H4 (Lys12) Recombinant Rabbit mAb

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Catalog # AP94275

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Chromosome.
SIMILARITY	Belongs to the histone H4 family.
SUBUNIT	The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA.
Post-translational modifications	Acetylation at Lys-6 (H4K5ac), Lys-9 (H4K8ac), Lys-13 (H4K12ac) and Lys-17 (H4K16ac) occurs in coding regions of the genome but not in heterochromatin. Citrullination at Arg-4 (H4R3ci) by PADI4 impairs methylation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. [provided by RefSeq, Jul 2008]

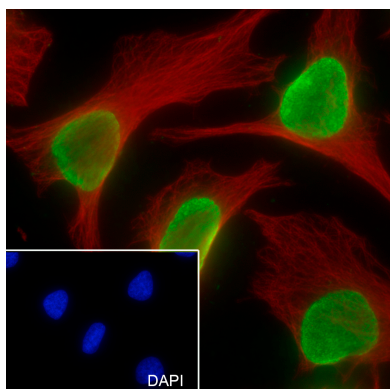
Additional Information

Dilution	WB=1:500-1:2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50,IF=0,Flow-Cyt=1:50-1:100
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

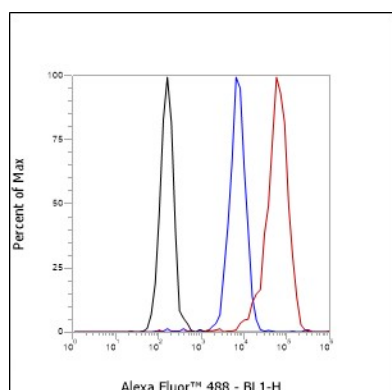
Background

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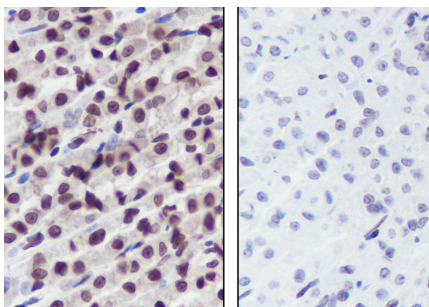
Images



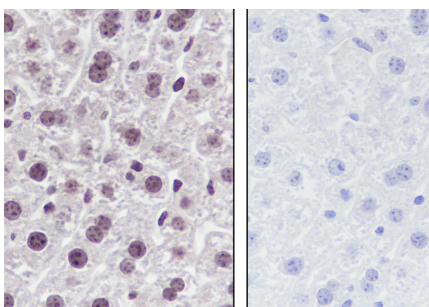
Cell line: HeLa Fixative: 100% Ice-cold methanol
Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Primary incubation condition: 4°C overnight
Secondary ab: Goat Anti-Rabbit IgG Nuclear counter stain: DAPI (Blue) Counter stain: Tubulin (Red) Comment: Color green is the positive signal for AP94275



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 AP94275

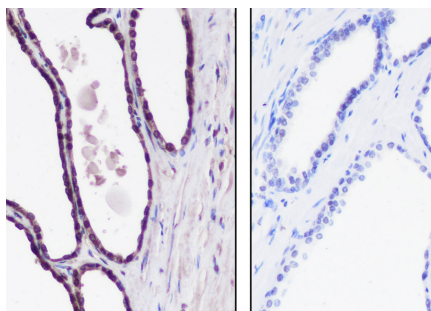


Tissue: Rat stomach Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:500 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Rabbit) (sp-0023) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94275

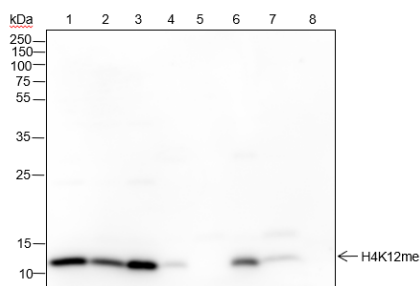


Tissue: Mouse liver Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:500 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Rabbit) (sp-0023) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94275

Tissue: Human prostate hyperplasia 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: 1:500 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 AP94275



Blocking buffer: 5% NFDm/TBST Primary ab dilution:
1:2000 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
heart, 5. Rat heart, 6. Mouse kidney, 7. Rat kidney, 8.
Recombinant Histone H4 Protein loading quantity: 20 μ g
Exposure time: 30 s Predicted MW: 11 kDa Observed MW:
11 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.