



## Rabbit Anti-Histone H4 (tri methyl K20) antibody

SL7403R

<b>Product Name:</b>	Histone H4 (tri methyl K20)
<b>Chinese Name:</b>	组蛋白H4(三甲基K20)抗体
<b>Alias:</b>	H4F2; H4FN; HIST1H4; HIST2H4; HISTH4H4; methyl histone H4; histone H4; H4_HUMAN; Osteogenic growth peptide; OGP.Histone H3/l.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Cow,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	11kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised methylpeptide derived from human Histone H4 around the methylation site of tri methyl K20:HR(tri methyl K)VL
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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]

**Function:**

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

**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.

**Subcellular Location:**

Nucleus. Chromosome.

**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.

**Similarity:**

Belongs to the histone H4 family.

**SWISS:**

P02304

**Gene ID:**

121504

**Database links:**

[Entrez Gene: 121504](#) Human

[Entrez Gene: 554313](#) Human

[Entrez Gene: 8294](#) Human

[Entrez Gene: 8359](#) Human

[Entrez Gene: 8360](#) Human

[Entrez Gene: 8361](#) Human  
[Entrez Gene: 8362](#) Human  
[Entrez Gene: 8363](#) Human  
[Entrez Gene: 8364](#) Human  
[Entrez Gene: 8365](#) Human  
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[Entrez Gene: 8368](#) Human  
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[Entrez Gene: 100041230](#) Mouse  
[Entrez Gene: 100862646](#) Mouse  
[Entrez Gene: 319155](#) Mouse  
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[Entrez Gene: 319160](#) Mouse  
[Entrez Gene: 319161](#) Mouse  
[Entrez Gene: 320332](#) Mouse  
[Entrez Gene: 326619](#) Mouse  
[Entrez Gene: 326620](#) Mouse  
[Entrez Gene: 69386](#) Mouse  
[Entrez Gene: 97122](#) Mouse  
[GenBank: NM\\_003548](#) Human  
[Omim: 142750](#) Human

[SwissProt: P84040](#) Fruit fly (*Drosophila melanogaster*)

[SwissProt: P02304](#) Human

[SwissProt: P62805](#) Human

[SwissProt: P02304](#) Mouse

[SwissProt: P62806](#) Mouse

[SwissProt: P02304](#) Rat

[SwissProt: P09322](#) *Schizosaccharomyces pombe*

[Unigene: 21500](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 29514](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 29527](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30219](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30220](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30221](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30223](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30868](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30869](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30871](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30872](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30873](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 30876](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 33873](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 5747](#) Fruit fly (*Drosophila melanogaster*)

[Unigene: 143080](#) Human

[Unigene: 247816](#) Human

[Unigene: 248172](#) Human

[Unigene: 248178](#) Human

[Unigene: 248179](#) Human

[Unigene: 278483](#) Human

[Unigene: 352191](#) Human

[Unigene: 46423](#) Human

[Unigene: 528055](#) Human

[Unigene: 533295](#) Human

[Unigene: 55468](#) Human

[Unigene: 591790](#) Human

[Unigene: 655235](#) Human

[Unigene: 662174](#) Human

[Unigene: 706635](#) Human

[Unigene: 742244](#) Human

[Unigene: 14775](#) Mouse

[Unigene: 158272](#) Mouse

[Unigene: 227295](#) Mouse

[Unigene: 228709](#) Mouse

[Unigene: 246720](#) Mouse

[Unigene: 255646](#) Mouse

[Unigene: 260530](#) Mouse

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[Unigene: 261662](#) Mouse

[Unigene: 261664](#) Mouse

[Unigene: 377875](#) Mouse

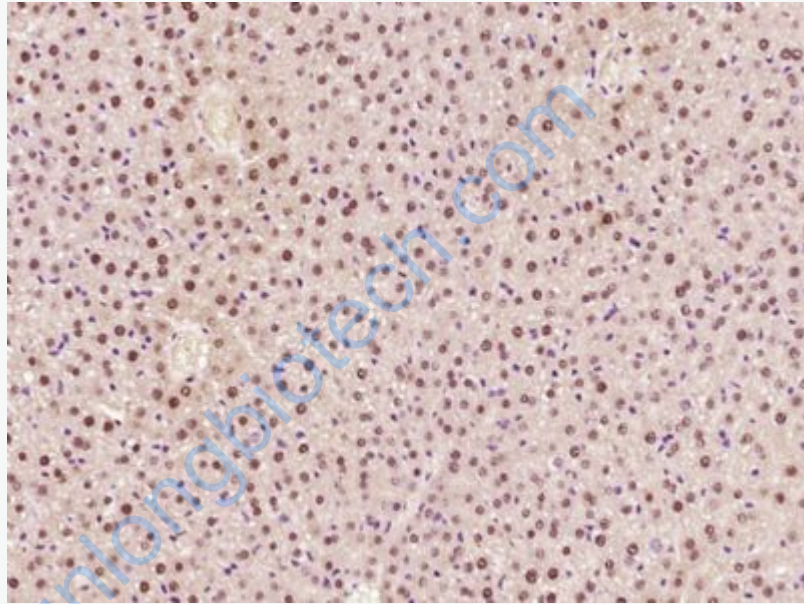
[Unigene: 442307](#) Mouse

[Unigene: 486099](#) Mouse

[Unigene: 489077](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H4 (tri methyl K20)) Polyclonal Antibody, Unconjugated (SL7403R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.