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

SLM-52112R

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|---|---|
| **Product Name** | Histone H4 (tri methyl K20) |
| **Chinese Name** | 组蛋白 H4（三甲基 K20）Recombinant rabbit monoclonal anti |
| **Alias** | H4K20me3; H4F2; H4FN; HIST1H4; HIST2H4; HISTH4H4; methyl histone H4; H4_HUMAN; Osteogenic growth peptide; OGP.Histone H3/l. |
| **Research Area** | Tumour Cell biology Chromatin and nuclear signals Epigenetics |
| **Immunogen Species** | Rabbit |
| **Clonality** | Monoclonal |
| **Clone NO.** | 2C12 |
| **React Species** | Human,Mouse |
| **Applications** | WB=1:500-1000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Theoretical molecular weight** | 11kDa |
| **Cellular localization** | The nucleus cytoplasmic |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **immunogen** | KLH conjugated Synthesised methylpeptide derived from human Histone H4 around the methylation site of tri methyl Lys20: HR(tri methyl K)VL |
| **Lsotype** | IgG |
| **Purification** | affinity purified by Protein A |
| **Buffer Solution** | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| **Storage** | Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Attention** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **PubMed** | PubMed |

**Product Detail**

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:**
P62805

**Gene ID:**
8359

**Database links:**

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

Entrez Gene: 8366 Human

Entrez Gene: 8367 Human

Entrez Gene: 8368 Human

Entrez Gene: 8370 Human

Entrez Gene: 100041230 Mouse

Entrez Gene: 100862646 Mouse

Entrez Gene: 319155 Mouse

Entrez Gene: 319156 Mouse

Entrez Gene: 319157 Mouse

Entrez Gene: 319158 Mouse

Entrez Gene: 319159 Mouse

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

Unigene: 261642 Mouse

Unigene: 261662 Mouse

Unigene: 261664 Mouse

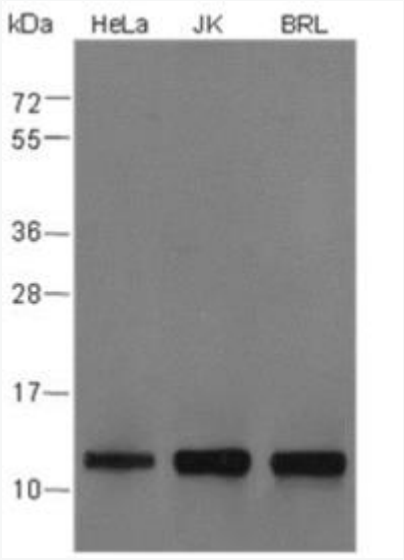
Unigene: 377875 Mouse

Unigene: 442307 Mouse

Unigene: 486099 Mouse

Unigene: 489077 Mouse

**Product Picture**




Blocking buffer: 5% NFDM/TBST

Primary ab dilution: 1:2000

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Primary ab incubation condition: 2 hours at

room temperature

Secondary ab: Goat Anti-Mouse IgG H&L

(HRP)

Lysate: HeLa, Jurkat, BRL

Protein loading quantity: 20 μg

Exposure time: 60 s

Predicted MW: 11 kDa

Observed MW: 11 kDa