SunLong Biotech Co.,LTD
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Rabbit Anti-Histone H4 (mono methyl K20)antibody

SL7499R

Product Name	Histone H4 (mono methyl K20)
Chinese Name	组蛋白 H4（单甲基 K20）抗体
Alias	H4F2; H4FN; HIST1H4; HIST2H4; HISTH4H4; methyl histone H4; histone H4; H4_HUMAN; Osteogenic growth peptide; OGP.
Product Type	Methylated anti
Research Area	Tumour Cell biology Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Cow,Horse)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	11kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised methylpeptide derived from human Histone H4 around the methylation site of mono methyl K20: HR(mono 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°C. 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.

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: 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

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: 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

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Unigene: 246720 Mouse

Unigene: 255646 Mouse

Unigene: 260530 Mouse

Unigene: 261642 Mouse

Unigene: 261662 Mouse

Unigene: 261664 Mouse

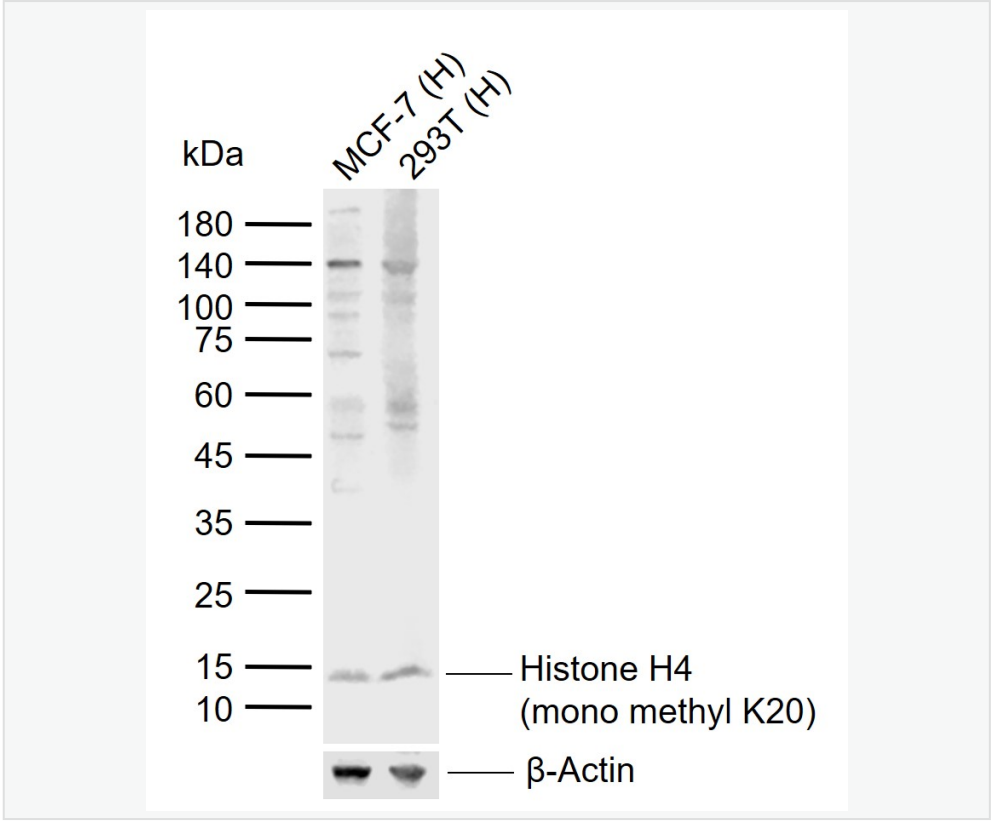
Unigene: 377875 Mouse

Unigene: 442307 Mouse

Unigene: 486099 Mouse

Unigene: 489077 Mouse

Product Picture



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Sample:

Lane 1: Human MCF-7 cell lysates

Lane 2: Human 293T cell lysates

Primary: Anti-Histone H4 (mono methyl K20) (SL7499R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 11 kDa

Observed band size: 14 kDa