

Product datasheet for **TA377079S**

H4C2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:200 IF,1:50 - 1:200
Reactivity:	Human, Mouse, Rat, Other (Wide Range)
Modifications:	Acetyl K12
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic acetylated peptide around K12 of human Histone H4 (NP_001029249.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	11kDa
Gene Name:	histone cluster 1, H4b
Database Link:	Entrez Gene 8366 Human P62805



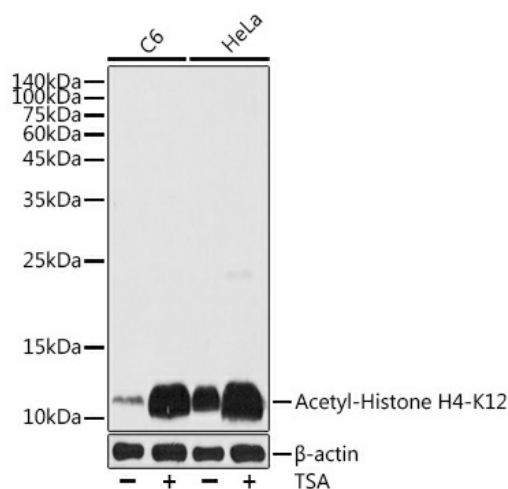
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Background:

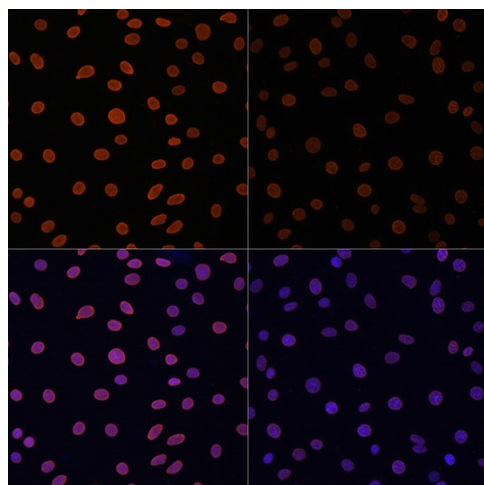
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6.

Synonyms:

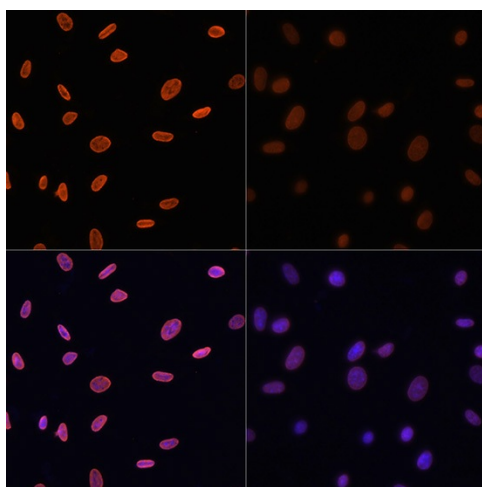
H4/A; H4/B; H4/C; H4/D; H4/E; H4/G; H4/H; H4/I; H4/J; H4/K; H4/M; H4/N; H4/O; H4F2; H4FA; H4FB; H4FC; H4FD; H4FE; H4FG; H4FH; H4FI; H4FJ; H4FK; H4FM; H4FN; H4FO; HIST2H4

Product images:


Western blot analysis of extracts of various cell lines, using Acetyl-Histone H4-K12 antibody ([TA377079]) at 1:500 dilution. HeLa cells and C6 cells were treated by TSA (1 uM) at 37°C for 18 hours. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 30s.



Immunofluorescence analysis of C6 cells using Acetyl-Histone H4-K12 antibody ([TA377079]) at dilution of 1:100. C6 cells were treated by TSA (1 uM) at 37°C for 18 hours. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Acetyl-Histone H4-K12 antibody ([TA377079]) at dilution of 1:100. NIH/3T3 cells were treated by TSA (1 μ M) at 37°C for 18 hours. Blue: DAPI for nuclear staining.