

Product datasheet for TA327358S

H4C14 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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| Product Type: | Primary Antibodies |
|-------------------------|---|
| Applications: | Dot, ICC/IF, IHC, WB |
| Recommended Dilution: | WB 1:500 - 1:2000;IF 1:50 - 1:200 |
| Reactivity: | Human, Mouse, Rat, Other (Wide Range) |
| Host: | Rabbit |
| lsotype: | lgG |
| Clonality: | Polyclonal |
| Immunogen: | A synthetic methylated peptide corresponding to residues surrounding K20 of human histone H4 |
| Formulation: | Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3 |
| Concentration: | lot specific |
| Purification: | Affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 11 kDa |
| Gene Name: | histone cluster 2, H4a |
| Database Link: | <u>Entrez Gene 8370 Human</u> <u>P62805</u> |



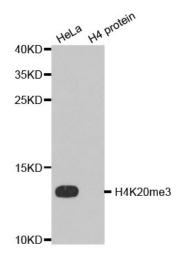
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GRIGENE H4C14 Rabbit Polyclonal Antibody – TA327358S

Background: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

Synonyms:FO108; H4; 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; OTTHUMP00000013906; OTTHUMP00000194863

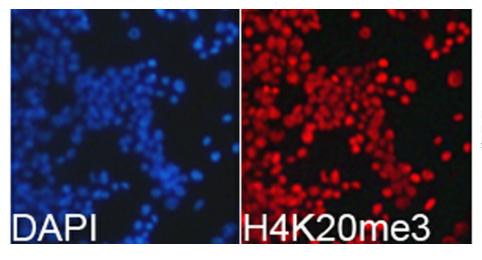
Product images:



Western blot analysis of extracts of HeLa cell line and H4 protein expressed in E.coli., using H4K20me3 antibody.

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Immunofluorescence analysis of 293T cell using H4K20me3 antibody. Blue: DAPI for nuclear staining.

| | H3R2 | | H3K4 | | H3R8 | | НЗК9 | | H3R17 | | H3R26 | |
|--------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| | tong | 50n9 | tong | 50n9 | tong | 50n9 | 10ng | 50n9 | 1009 | 50n9 | 10ng | 50ng |
| me0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| me1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| me2/ me2a | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| me3/ me2s | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | H3K27 | | H3K36 | | H3K56 | | H3K79 | | H4R3 | | H4K20 | |
| me0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| me1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| me2/ me2a | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| me3/ me2s | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | • |

Dot-blot analysis of all sorts of methylation peptides using H4K20me3 antibody.

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