

Product datasheet for **TA327357S**

H4C14 Rabbit Polyclonal Antibody

Product data:

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
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the amino terminus of histone H4 in which Lys20 is mono-methylated.
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:	Entrez Gene 8370 Human P62805



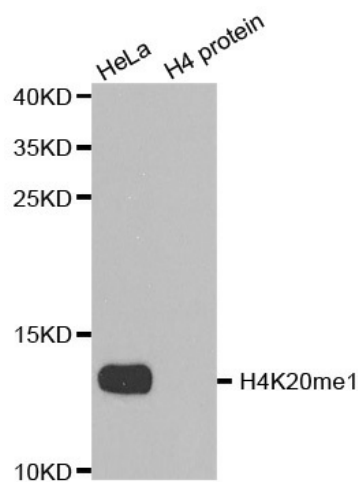
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Background:

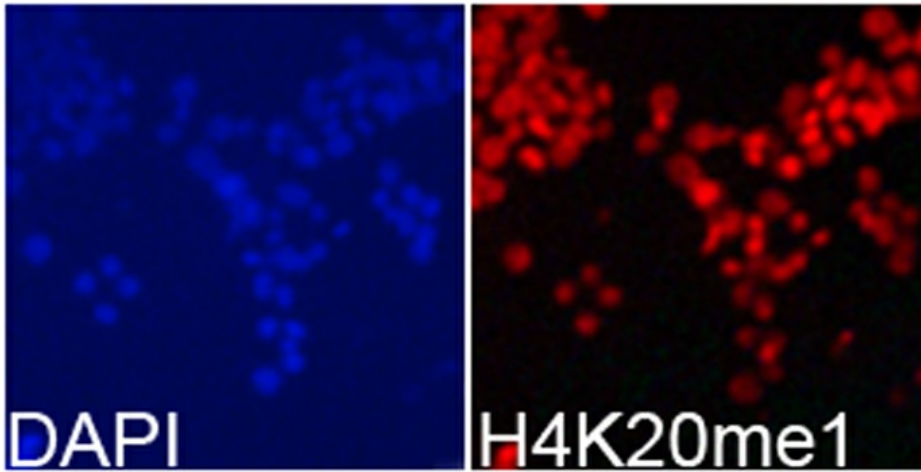
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The 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 H4K20me1 antibody.



Immunofluorescence analysis of 293T cell using H4K20me1 antibody. Blue: DAPI for nuclear staining.

	H3R2		H3K4		H3R8		H3K9		H3R17		H3R26	
	10ng	50ng	10ng	50ng	10ng	50ng	10ng	50ng	10ng	50ng	10ng	50ng
me0	○	○	○	○	○	○	○	○	○	○	○	○
me1	○	○	○	○	○	○	○	○	○	○	○	○
me2/ me2a	○	○	○	○	○	○	○	○	○	○	○	○
me3/ me2s	○	○	○	○	○	○	○	○	○	○	○	○

	H3K27		H3K36		H3K56		H3K79		H4R3		H4K20	
	10ng	50ng	10ng	50ng	10ng	50ng	10ng	50ng	10ng	50ng	10ng	50ng
me0	○	○	○	○	○	○	○	○	○	○	○	○
me1	○	○	○	○	○	○	○	○	○	○	○	●
me2/ me2a	○	○	○	○	○	○	○	○	○	○	○	○
me3/ me2s	○	○	○	○	○	○	○	○	○	○	○	○

Dot-blot analysis of all sorts of methylation peptides using H4K20me1 antibody.