

# Histone H4 Rabbit mAb

Catalog # AP75549

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">P62805</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	11367

## Additional Information

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<b>Gene ID</b>	121504;554313;8294;8359;8360;8361;8362;8363;8364;8365;8366;8367;8368;8370
<b>Other Names</b>	H4C1
<b>Dilution</b>	WB~~1:500-1:1000 IHC-P~~N/A
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

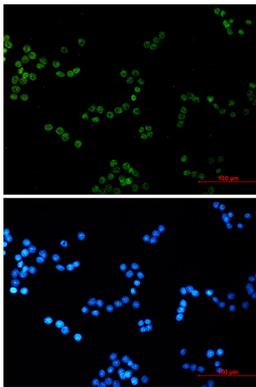
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<b>Name</b>	H4C1
<b>Synonyms</b>	H4/A, H4FA, HIST1H4A
<b>Function</b>	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby 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.
<b>Cellular Location</b>	Nucleus {ECO:0000250 UniProtKB:P62806}. Chromosome. Note=Localized to the nucleus when acetylated in step 11 spermatids. {ECO:0000250 UniProtKB:P62806}

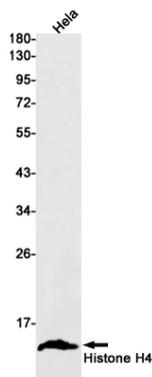
## Background

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 replication-dependent histone that is 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.

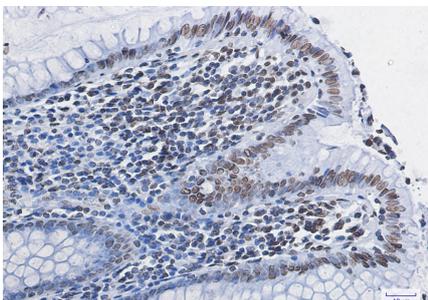
## Images



Immunocytochemistry analysis of Histone H4 (green) in HeLa using Histone H4 antibody, and DAPI (blue).



Western blot analysis of Histone H4 in HeLa lysates using Histone H4 antibody.



Immunohistochemistry analysis of paraffin-embedded Human colon cancer tissue using Histone H4 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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