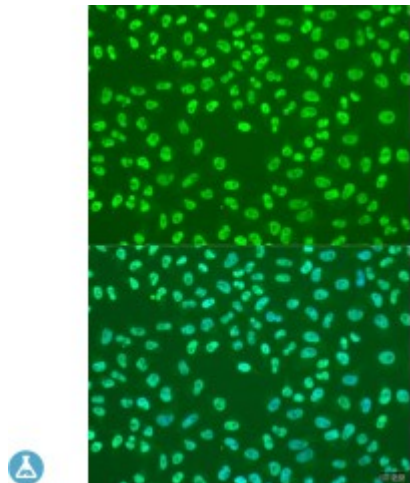


## Anti-HIST1H3A Antibody



### Description

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 H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

<b>Model</b>	STJ117852
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Applications</b>	IF
<b>Immunogen</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 1-136 of human HIST1H3A (NP_003520.1).
<b>Gene ID</b>	<a href="#">8350</a>
<b>Gene Symbol</b>	<a href="#">HIST1H3A</a>
<b>Dilution range</b>	IF 1:50 - 1:200
<b>Purification</b>	Affinity purification
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Histone H3.1 Histone H3/a Histone H3/b Histone H3/c Histone H3/d Histone

	H3/f Histone H3/h Histone H3/i Histone H3/j Histone H3/k Histone H3/l
<b>Molecular Weight</b>	15.404 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage Instruction</b>	Store at -20C. Avoid freeze / thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/condensedbook/condensedbook.cgi?HGNC:4766OMIM:137800Reactome:R-HSA-1266695">HGNC:4766OMIM:137800Reactome:R-HSA-1266695</a>
<b>Alternative Names</b>	Histone H3.1 Histone H3/a Histone H3/b Histone H3/c Histone H3/d Histone H3/f Histone H3/h Histone H3/i Histone H3/j Histone H3/k Histone H3/l
<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 Localization</b>	Nucleus, Chromosome
<b>Post-translational Modifications</b>	Acetylation is generally linked to gene activation, Acetylation on Lys-10 (H3K9ac) impairs methylation at Arg-9 (H3R8me2s), Acetylation on Lys-19 (H3K18ac) and Lys-24 (H3K24ac) favors methylation at Arg-18 (H3R17me), Acetylation at Lys-123 (H3K122ac) by EP300/p300 plays a central role in chromatin structure: localizes at the surface of the histone octamer and stimulates transcription, possibly by promoting nucleosome instability,