



# Rabbit Anti-Histone H3 monoclonal antibody, clone KK101-18 (CABT-BL8507)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	Histone H3
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	KK101-18
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC, CHIP
<b>Molecular Weight</b>	15 kDa
<b>Cellular Localization</b>	Nucleus, Chromosome.
<b>Positive Control</b>	NIH/3T3, MCF-7, HeLa, human tonsil tissue, human liver tissue, human kidney tissue, human uterus tissue, mouse liver tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

# BACKGROUND

**Introduction**

In eukaryotes, DNA is wrapped around histone octamers to form the basic unit of chromatin structure. The octamer is composed of histones H2A, H2B, H3 and H4, and it associates with approximately 200 base pairs of DNA to form the nucleosome. The association of DNA with histones results in dense packing of chromatin, which restricts proteins involved in gene transcription from binding to DNA. p300 preferentially acetylates Histone H3 at lysines 14 and 18 and Histone H4 at lysines 5 and 8. PCAF in its native form, primarily acetylates Histone H3 at lysine 14 to a monoacetylated form, and less efficiently acetylates Histone H4 at lysine 8. Histone H4 may also be acetylated at lysines 12 and 16, and the involvement of acetylated H4 with Histones H2A, H2B and H3 suggests that acetylated histones may be involved in dynamic chromatin remodeling.

**Keywords**

H3 histone family, member  
A;H3/A;H31\_HUMAN;H3FA;Hist1h3a;HIST1H3B;HIST1H3C;HIST1H3D;HIST1H3E;HIST1H3F;HIST1H3G  
1, H3a;Histone cluster 1, H3a;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 antibody