

## Histone H3 Conjugated Antibody

Catalog No: #C49295



Package Size: #C49295-AF350 100ul #C49295-AF405 100ul #C49295-AF488 100ul  
 #C49295-AF555 100ul #C49295-AF594 100ul #C49295-AF647 100ul  
 #C49295-AF680 100ul #C49295-AF750 100ul #C49295-Biotin 100ul

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## Description

Product Name	Histone H3 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	JJ092-08
Purification	ProA affinity purified
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	H3 histone family, member A antibody H3/A antibody H31_HUMAN antibody H3FA antibody Hist1h3a antibody HIST1H3B antibody HIST1H3C antibody HIST1H3D antibody HIST1H3E antibody HIST1H3F antibody HIST1H3G antibody HIST1H3H antibody HIST1H3I antibody HIST1H3J antibody histone 1, H3a antibody Histone cluster 1, H3a antibody Histone H3.1 antibody Histone H3/a antibody Histone H3/b antibody Histone H3/c antibody Histone H3/d antibody Histone H3/f antibody Histone H3/h antibody Histone H3/i antibody Histone H3/j antibody Histone H3/k antibody Histone H3/l antibody
Accession No.	Swiss-Prot#:P68431
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	15 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

## Background

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.

## References

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Note: This product is for in vitro research use only