

## Acetyl-Histone H3-K9 pAb

<b>Catalog No.</b>	A7255	<b>Category</b>	Acetylated Antibodies
<b>Applications</b>	WB, IHC, IF, IP, CHIP, ChIPseq	<b>Observed MW</b>	16kDa
<b>Cross-reactivity</b>	Human, Mouse, Rat, Other (Wide Range)	<b>Calculated MW</b>	15kDa

### Immunogen Information

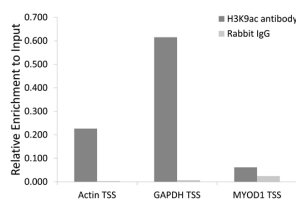
<b>Immunogen</b>	A synthetic peptide of human Acetyl-Histone H3-K9
<b>Gene ID</b>	8290
<b>Swiss prot</b>	Q16695
<b>Synonyms</b>	H3.4;H3/g;H3FT;H3t

### Product information

<b>Source</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification method</b>	Affinity purification
<b>Storage</b>	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

### Background

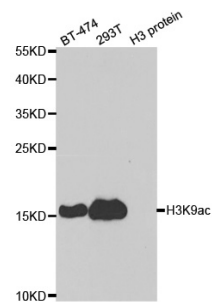
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber 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 located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.



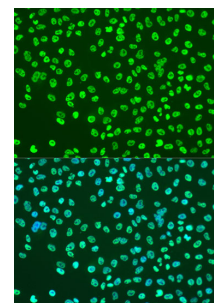
Chromatin immunoprecipitation analysis extracts of 293 cell line, using H3K9ac antibody (A7255) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

### Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200
IP	1:50 - 1:200
CHIP	1:20 - 1:100
CHIPseq	1:20 - 1:50



Western blot analysis of extracts of various cell lines, using Acetyl-Histone H3-K9 antibody (A7255) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.



Immunofluorescence analysis of U2OS cells using Acetyl-Histone H3-K9 antibody (A7255) at dilution of 1:100. Blue: DAPI for nuclear staining.