

Acetyl-Histone H3-K9 pAb

Catalog No	A7255	Category	Acetylated Antibodies
Applications	WB,IHC,IF,IP,ChIP,ChIPseq	Observed MW	16kDa
Cross-Reactivity	Human,Mouse,Rat,Other (Wide Range)	Calculated MW	15kDa

Immunogen Information

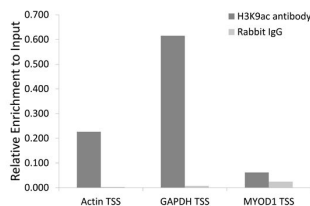
Immunogen	A synthetic peptide of human Acetyl-Histone H3-K9
Gene ID	8290
Swiss Prot	Q16695
Synonyms	H3.4,H3/g,H3FT,H3t

Product information

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

Background

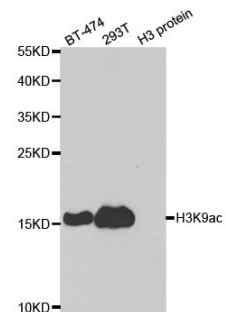
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber 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

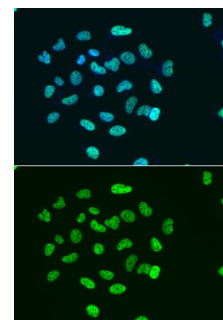


Western blot analysis of extracts of various cell lines, using Acetyl-Histone H3-K9 antibody (A7255) at 1:1000 dilution.

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 HeLa cells using Acetyl-Histone H3-K9 antibody (A7255). Blue: DAPI for nuclear staining.