

## Acetyl-Histone H3-K18 pAb

<b>Catalog No.</b>	A7257	<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

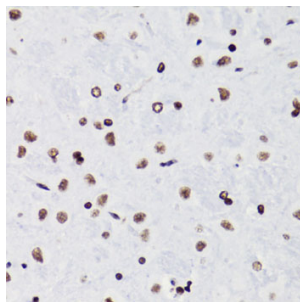
<b>Immunogen</b>	A synthetic acetylated peptide corresponding to residues surrounding K18 of human H3
<b>Gene ID</b>	8356
<b>Swiss prot</b>	P68431
<b>Synonyms</b>	H3/j;H3FJ

### Product information

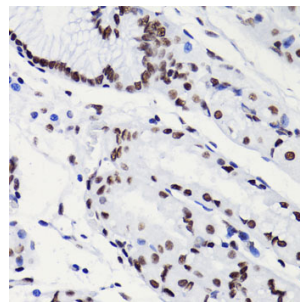
<b>Source</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification method</b>	Affinity purification
<b>Storage</b>	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

### Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order 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 but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3.



Immunohistochemistry of paraffin-embedded rat brain using H3K18ac antibody (A7257) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human stomach using H3K18ac antibody (A7257) at dilution of 1:100 (40x lens).

### Recommended Dilutions

WB 1:1000 -  
1:3000

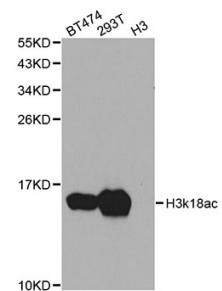
IHC 1:200 -  
1:500

IF 1:500 -  
1:1000

IP 1:200 -  
1:500

CHIP 1:50 -  
1:100

ChIPseq 1:50 -  
1:100

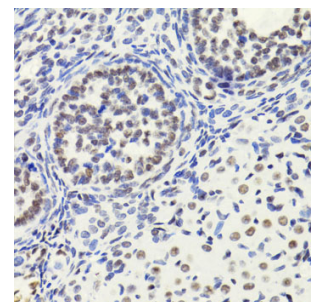


Western blot analysis of extracts of various cell lines, using Acetyl-Histone H3-K18 antibody (A7257) at 1:1000 dilution.

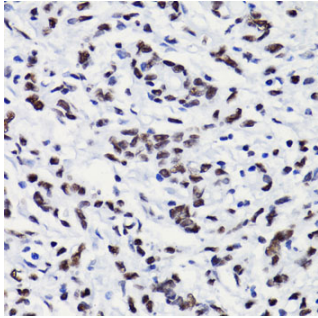
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.

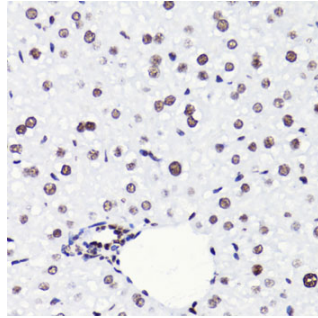
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.



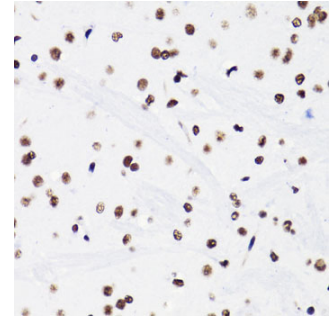
Immunohistochemistry of paraffin-embedded rat ovary using H3K18ac antibody (A7257) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human gastric cancer using H3K18ac antibody (A7257) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse liver using H3K18ac antibody (A7257) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using H3K18ac antibody (A7257) at dilution of 1:100 (40x lens).