

## Histone H3 (Acetyl Lys18) Polyclonal Antibody

<b>Catalog No :</b>	YK0008
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Histone H3
<b>Fields :</b>	>>Neutrophil extracellular trap formation;>>Alcoholism;>>Shigellosis;>>Transcriptional misregulation in cancer;>>Systemic lupus erythematosus
<b>Gene Name :</b>	HIST1H3A/HIST1H3B/HIST1H3C/HIST1H3D/HIST1H3E/HIST1H3F/HIST1H3G/HIST1H3H/HIST1H3I/HIST1H3J/HIST2H3A/HIST2H3C/HIST2H3D/H3F3A/H3F3B
<b>Protein Name :</b>	Histone H3.1/Histone H3.2/Histone H3.3
<b>Human Gene Id :</b>	8350/8351/8352/8353/8354/8355/8356/8357/8358/8968/126961/333932/653604/3020/3021
<b>Human Swiss Prot No :</b>	P68431/Q71DI3/P84243
<b>Mouse Gene Id :</b>	319152/15077/15078
<b>Rat Gene Id :</b>	291159/100361558
<b>Rat Swiss Prot No :</b>	Q6LED0/P84245
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human Histone H3 around the acetylated site of Lys18. AA range:1-50
<b>Specificity :</b>	Acetyl-Histone H3 (K18) Polyclonal Antibody detects endogenous levels of Histone H3 protein only when acetylated at K18.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 17kD

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**Cell Pathway :** Protein\_Acetylation

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**Background :** Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015],

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**Function :** caution:Was originally (PubMed:2587222) thought to originate from mouse.,developmental stage:Expressed during S phase, then expression strongly decreases as cell division slows down during the process of differentiation.,function:Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.,mass spectrometry:Monoisotopic with N-acetylserine PubMed:16457589,miscellaneous:This histone is only present in mammals and is enriched in acetylation of Lys-15 and dimethylation of Lys-10 (H3K9me2).,PTM:Acetylation is generally I

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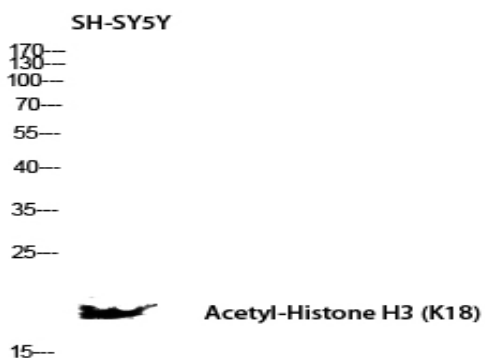
**Subcellular Location :** Nucleus. Chromosome.

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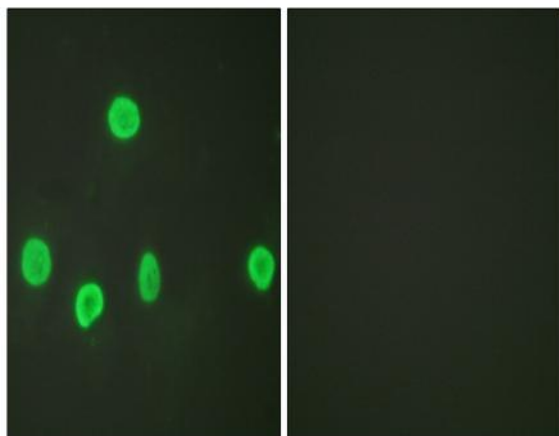
**Expression :** Blood,Epithelium,Kidney,Lung,Ovary,Spleen,Uterus,

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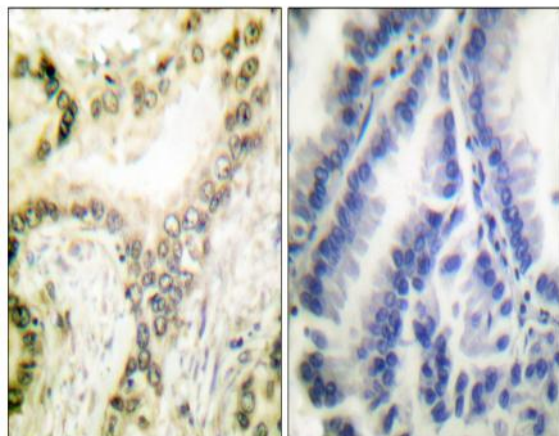
## Products Images



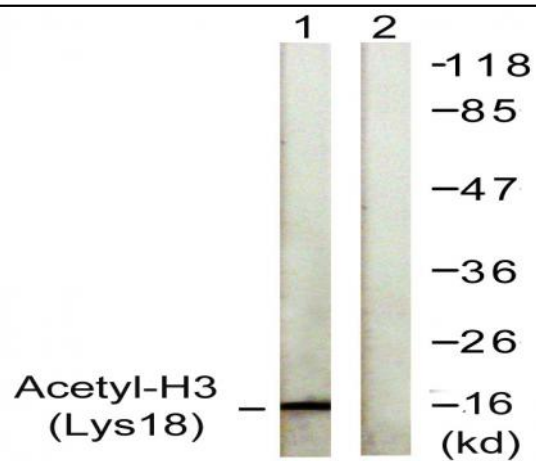
Western blot analysis of SH-SY5Y lysis using Acetyl-Histone H3 (K18) antibody. Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of HeLa cells, using Histone H3 (Acetyl-Lys18) Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Histone H3 (Acetyl-Lys18) Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, treated with TSA 400nM 24h, using Histone H3 (Acetyl-Lys18) Antibody. The lane on the right is blocked with the synthesized peptide.