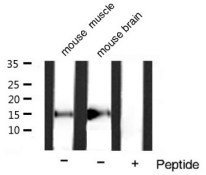
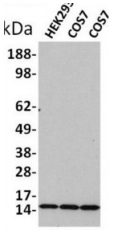
Acetyl-Histone H3 (Lys18) Ab

Cat.#: AF1023	Concn.: 1mg/ml	Mol.Wt.: 15 kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

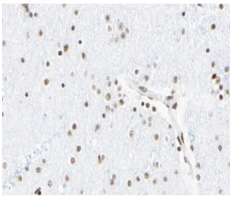
Application:	WB: 1:500~1:2000 IHC: 1:50~1:200 IF 1:200
Reactivity:	Human,Mouse,Rat
Purification:	affinity purification.
Specificity:	Acetyl-Histone H3 (Lys18) Ab detects endogenous levels of total Histone H3 protein only when acetylated at lysine18.
Immunogen:	The antiserum was produced against synthesized peptide derived from human Histone H3 around the acetylated site of Lys18.
Uniprot:	P68431/Q71DI3/P84243
Description:	H3 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. The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers.
Subcellular Location:	Nucleus. Chromosome.
Tissue Specificity:	Expressed during S phase, then expression strongly decreases as cell division slows down during the process of differentiation.
Similarity:	Belongs to the histone H3 family.
Storage Condition and Buffer:	PBS, pH 7.4,50% glycerol.



Western blot analysis of extracts from various tissue,using Acetyl-Histone H3 (Lys18) Ab.



Western blot analysis of extracts from HEK293 and COS7,treated with TSA 400nM 24h,using Acetyl-Histone H3 (Lys18) Ab.



AF1023 at 1/100 staining human Brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

AF1023 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.