Anti-Histone H3 (acetyl Lys18) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014313

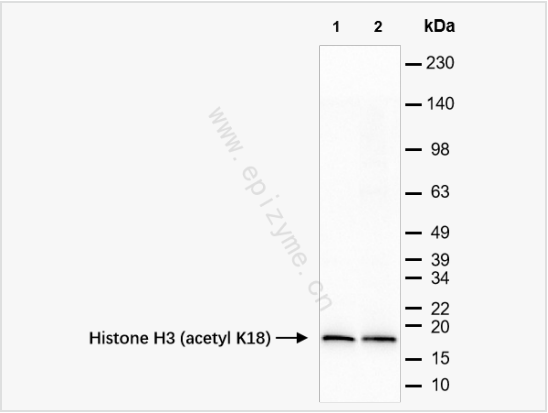
Product Information

Application	IHC-P/IF (Tissue-P), WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	52K62G34
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from Histone H3 (acetyl K18)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Histone H3 (acetyl Lys18) Rabbit mAb [52K62G34] is for research use only and not for use in diagnostic or therapeutic procedures.

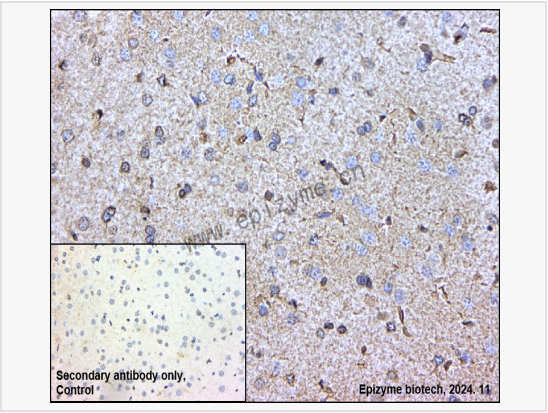
Protein Information

Synonyms	H3 histone family member E pseudogene, H3 histone family, member A, H3/A, H31_HUMAN, H3F3, H3FA, Hist1h3a, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J, HIST3H3, histone 1, H3a, Histone cluster 1, H3a, Histone H3 3 pseudogene, Histone H3.1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/i, Histone H3/j, Histone H3/k, Histone H3/l.
Calculated MW	Calculated MW: 15 kDa; Observed MW: 17 kDa
Uniprot ID	P68431
Gene ID	8350, 8351, 8352, 8353, 8354, 8355, 8356, 8357, 8358, 8968
Background	Belongs to the histone H3 family. 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.
Cellular Location	Nucleus. Chromosome. Chromosome, centromere. Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK1, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of cohesin is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation. In germ cells, cohesin complex dissociates from chromatin at prophase I, and may be replaced by a meiosis-specific cohesin complex.

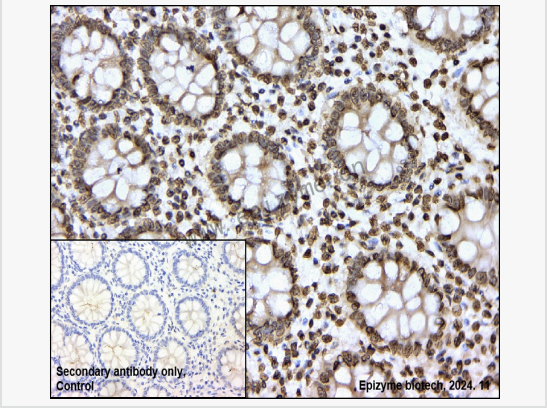
Validation Images



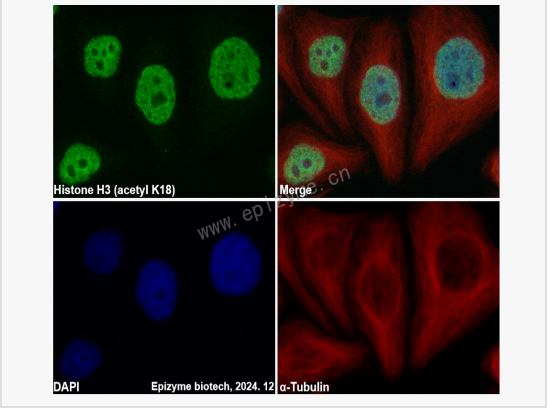
Western Blot - Anti-Histone H3 (acetyl Lys18) Rabbit mAb [52K62G34]
All lanes: R014313 at 1:1,000 dilution
Lane 1: Rat kidney whole tissue lysates
Lane 2: Rat spleen whole tissue lysateses
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 15 kDa
Observed band size: 17 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Histone H3 (acetyl Lys18) Rabbit mAb [52K62G34]
Sample: Paraformaldehyde-fixed, paraffin embedded rat brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014313 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Histone H3 (acetyl Lys18) Rabbit mAb [52K62G34]
Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014313 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Histone H3 (acetyl Lys18) Rabbit mAb [52K62G34]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014313 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).