

Anti-Histone H3 (acetyl Lys27) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

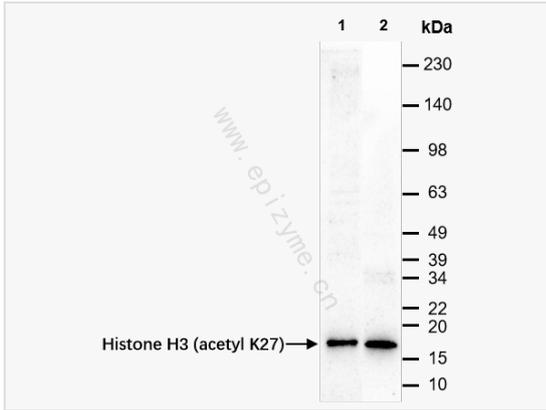
Catalog # R014314

Product Information

Application	WB, IHC-P/IF (Tissue-P), 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.	57F78H70
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from Histone H3 (acetyl K27)
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 Lys27) Rabbit mAb [57F78H70] 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, P84243, Q16695, Q6NXT2, Q71DI3
Gene ID	8350, 8351, 8352, 8353, 8354, 8355, 8356, 8357, 8358, 8968, 3020, 3021, 8290, 440093, 126961, 333932, 653604
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.



Western Blot - Anti-Histone H3 (acetyl Lys27) Rabbit mAb [57F78H70]

All lanes: R014314 at 1:1,000 dilution

Lane 1: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 2: Rat spleen whole tissue lysates

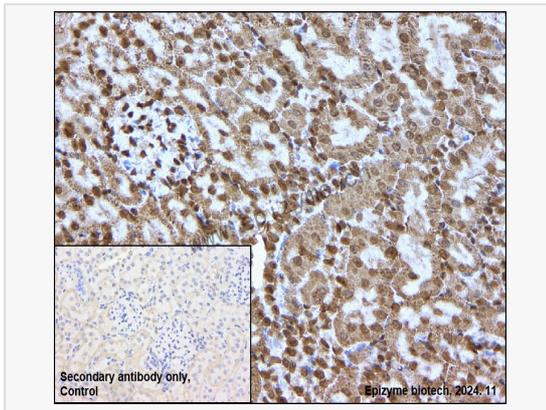
Lysates/proteins at 10 µg per lane.

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 Lys27) Rabbit mAb [57F78H70]

Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014314 at 1:200 dilution

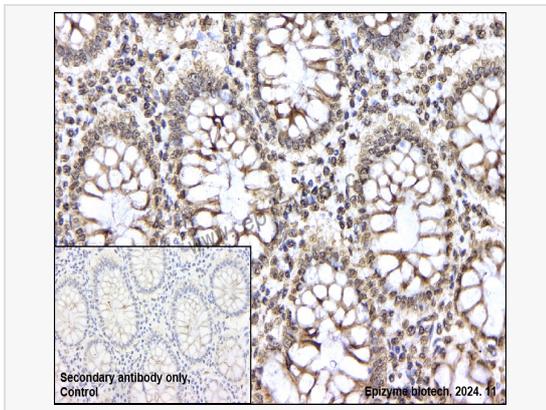
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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 Lys27) Rabbit mAb [57F78H70]

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: R014314 at 1:200 dilution

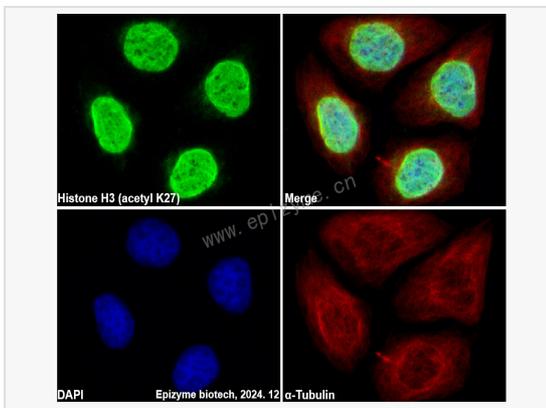
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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 Lys27) Rabbit mAb [57F78H70]

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: R014314 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).