

Histone H3 Rabbit mAb

Catalog No: #49295

Package Size: #49295-1 50ul #49295-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

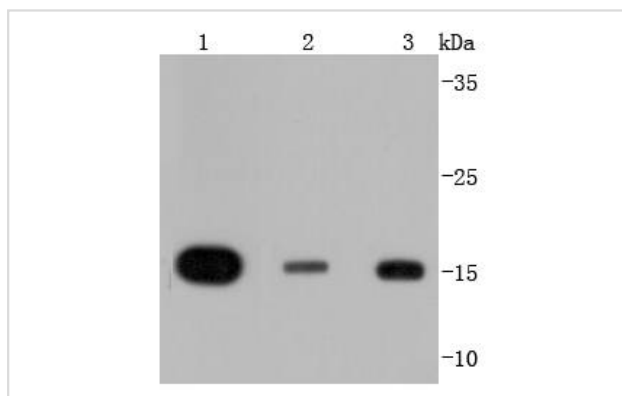
Description

Product Name	Histone H3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ092-08
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	H3 histone family, member A antibody H3/A antibody H31_HUMAN antibody H3FA antibody Hist1h3a antibody HIST1H3B antibody HIST1H3C antibody HIST1H3D antibody HIST1H3E antibody HIST1H3F antibody HIST1H3G antibody HIST1H3H antibody HIST1H3I antibody HIST1H3J antibody histone 1, H3a antibody Histone cluster 1, H3a antibody Histone H3.1 antibody Histone H3/a antibody Histone H3/b antibody Histone H3/c antibody Histone H3/d antibody Histone H3/f antibody Histone H3/h antibody Histone H3/i antibody Histone H3/j antibody Histone H3/k antibody Histone H3/l antibody
Accession No.	Swiss-Prot#:P68431
Uniprot	P68431
GeneID	8350;8351;8352;8353;8354;8355;8356;8357;8358;8968;
Calculated MW	15 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

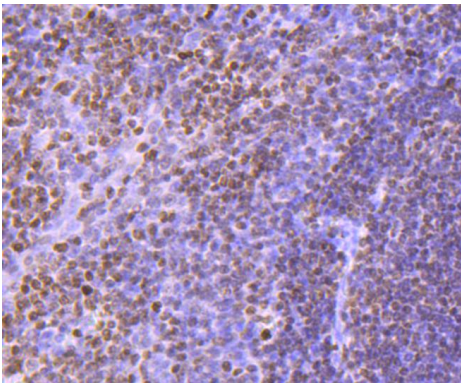
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

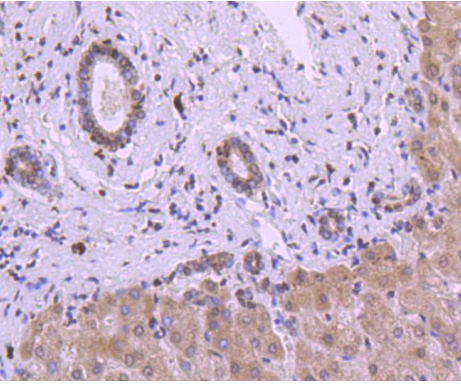
Images



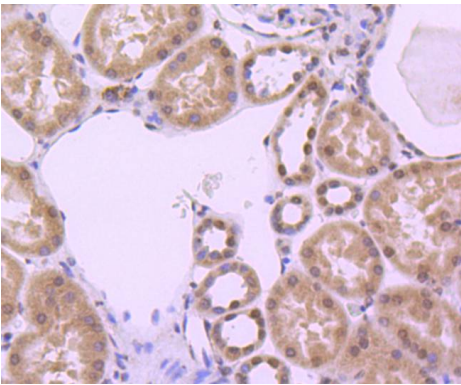
Western blot analysis of Histone H3 on different lysates using anti-Histone H3 antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela Lane 2: NIH/3T3 Lane 3: MCF-7



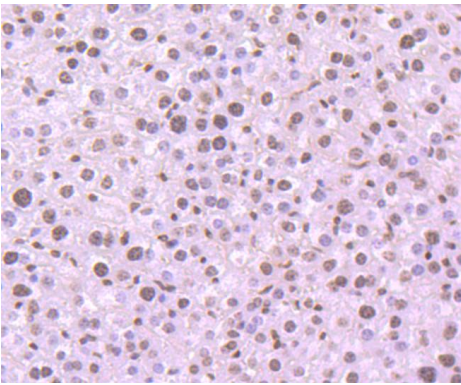
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.



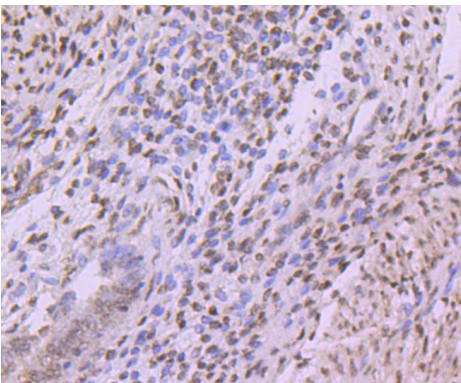
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.



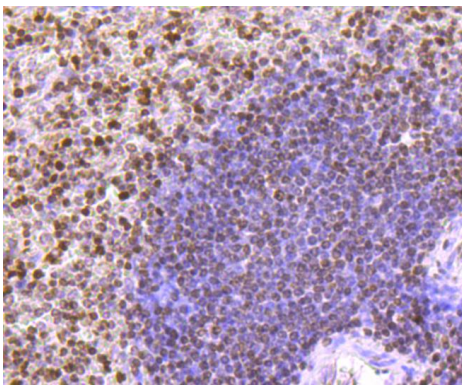
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.



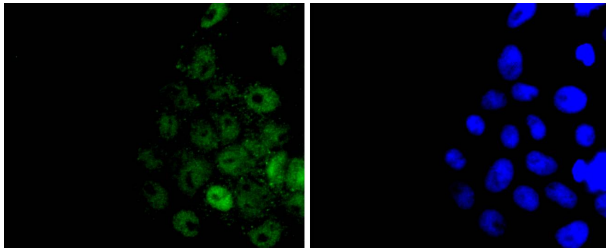
Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.



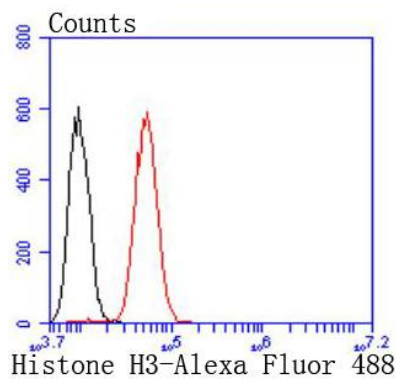
Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.



ICC staining Histone H3 in RH-35 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Histone H3 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

In eukaryotes, DNA is wrapped around histone octamers to form the basic unit of chromatin structure. The octamer is composed of histones H2A, H2B, H3 and H4, and it associates with approximately 200 base pairs of DNA to form the nucleosome. The association of DNA with histones results in dense packing of chromatin, which restricts proteins involved in gene transcription from binding to DNA. p300 preferentially acetylates Histone H3 at lysines 14 and 18 and Histone H4 at lysines 5 and 8. PCAF in its native form, primarily acetylates Histone H3 at lysine 14 to a monoacetylated form, and less efficiently acetylates Histone H4 at lysine 8. Histone H4 may also be acetylated at lysines 12 and 16, and the involvement of acetylated H4 with Histones H2A, H2B and H3 suggests that acetylated histones may be involved in dynamic chromatin remodeling.

References

Note: This product is for in vitro research use only