Data Sheet (Cat.No.TMAC-01921)

Anti-HIST1H3A Antibody (5X651)

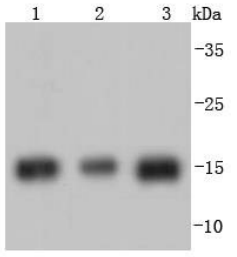
Product Details

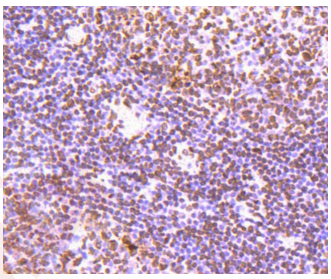
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 15 kDa.
Clone:	5X651
Purification:	ProA affinity purified

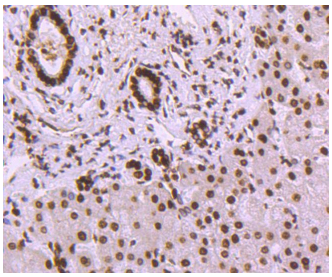
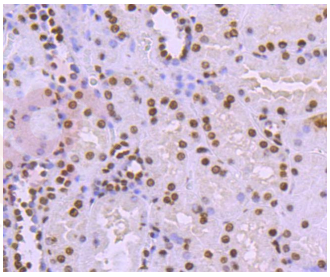
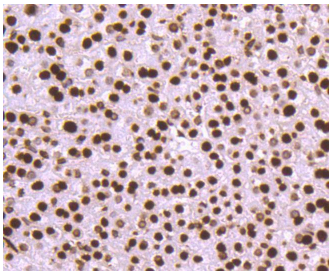
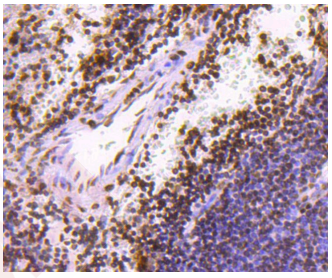
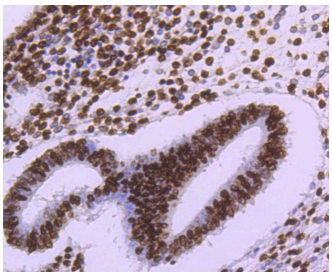
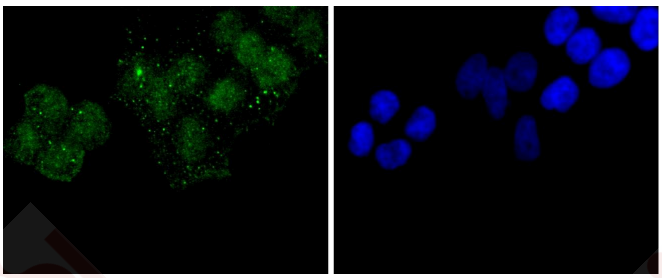
Applications

Verified Activity:

1. 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: MCF-7, Lane 3: NIH/3T3.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.
7. Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-Histone H3 antibody. Counter stained with hematoxylin.
8. ICC staining Histone H3 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ChIP,ICC/IF,IHC,WB

Recommended: WB: 1:1000-2000; IHC: 1:100-500; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P68431

Synonyms: histone cluster 1, H3a;Histone H3.1;Histone H3;HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J

Research 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.

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