

## Anti-Acetyl-Histone H2B type 1-K (Lys20) Antibody (5U443)

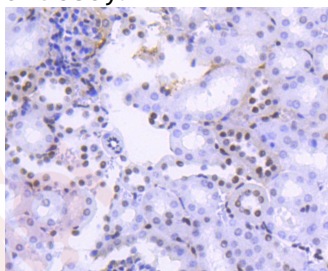
### Product Details

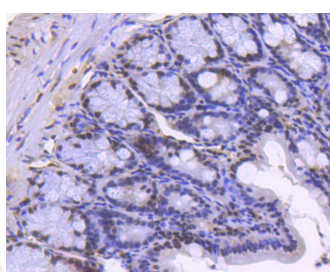
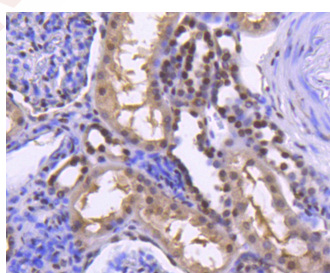
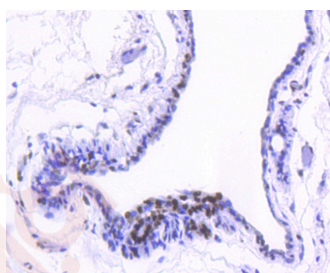
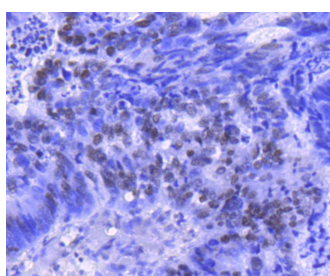
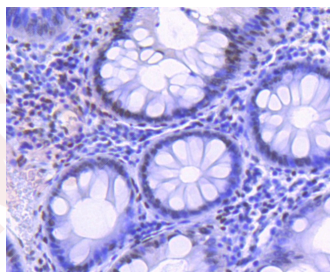
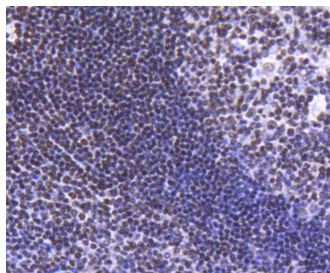
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 14 kDa.
Clone:	5U443
Purification:	ProA affinity purified

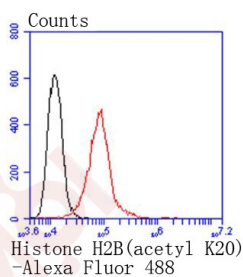
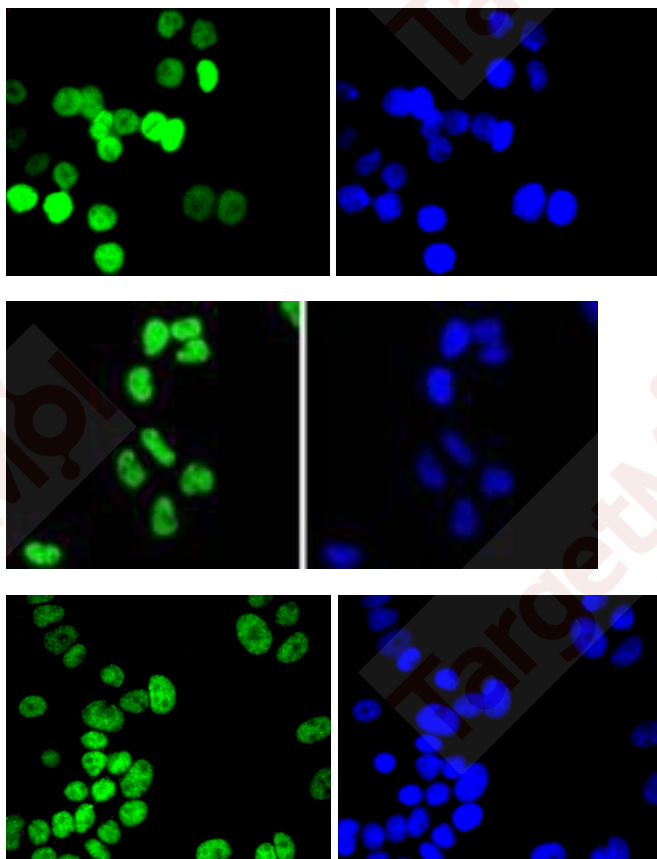
### Applications

#### Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Histone H2B (acetyl K20) antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Histone H2B (acetyl K20) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-Histone H2B (acetyl K20) antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Histone H2B (acetyl K20) antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Histone H2B (acetyl K20) antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Histone H2B (acetyl K20) antibody. Counter stained with hematoxylin.
7. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Histone H2B (acetyl K20) antibody. Counter stained with hematoxylin.
8. ICC staining Histone H2B (acetyl K20) in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining Histone H2B (acetyl K20) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. ICC staining Histone H2B (acetyl K20) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
11. Flow cytometric analysis of Hela cells with Histone H2B (acetyl K20) 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.







Application: FCM,ICC/IF,IHC,IP,WB

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

### 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: O60814

Synonyms: Histone H2K20-acetylated;Ac-Histone H2B type 1-K (K20);H2K20ac;Ac-Histone H2B type 1-K (Lys20);Acetyl-Histone H2B type 1-K (K20);Ac-H2K20

### Research Background

Eukaryotic histones are basic and water soluble nuclear proteins that form hetero-octameric nucleosome particles by wrapping 146 base pairs of DNA in a left-handed super-helical turn sequentially to form chromosomal fiber. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form the octamer; formed of two H2A-H2B dimers and two H3-H4 dimers, forming two nearly symmetrical halves by tertiary structure. Over 80% of

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nucleosomes contain the linker Histone H1, derived from an intronless gene, that interacts with linker DNA between nucleosomes and mediates compaction into higher order chromatin. Histones are subject to posttranslational modification by enzymes primarily on their N-terminal tails, but also in their globular domains. Such modifications include methylation, citrullination, acetylation, phosphorylation, sumoylation, ubiquitination and ADP-ribosylation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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