

Anti-Histone H3 (NT) Antibody (1N523)

Product Details

| | |
|-------------------|--------------------|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat |
| Molecular Weight: | Actual: 15 kDa. |
| Clone: | 1N523 |
| Purification: | Protein A purified |

Applications

Verified Activity:

1. Blocking buffer: 5% NFDM/TBST
Primary ab dilution: 1:1000
Primary ab incubation condition: 2 hours at room temperature
Secondary ab: Goat Anti-Rabbit IgG H&L (HRP)
Lysate: 1: HeLa, 2: NIH-3T3, 3: BRL, 4: Rat kidney, 5: Mouse kidney
Protein loading quantity: 20 µg
Exposure time: 30 s
Predicted MW: 15 kDa
Observed MW: 15 kDa
2. Tissue: Mouse colon
Section type: Formalin fixed & Paraffin-embedded section
Retrieval method: High temperature and high pressure
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:500
Primary ab incubation condition: 1 hour at room temperature
Secondary ab: SP Kit (Rabbit)
Counter stain: Hematoxylin (Blue)
Comment: Color brown is the positive signal for TMAB-07112
3. Tissue: Rat colon
Section type: Formalin fixed & Paraffin-embedded section
Retrieval method: High temperature and high pressure
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:500
Primary ab incubation condition: 1 hour at room temperature
Secondary ab: SP Kit (Rabbit)
Counter stain: Hematoxylin (Blue)
Comment: Color brown is the positive signal for TMAB-07112
4. Tissue: Human prostatic hyperplasia
Section type: Formalin fixed & Paraffin-embedded section
Retrieval method: High temperature and high pressure
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:500
Primary ab incubation condition: 1 hour at room temperature
Secondary ab: SP Kit (Rabbit)
Counter stain: Hematoxylin (Blue)
Comment: Color brown is the positive signal for TMAB-07112
5. Cell line: HeLa
Fixative: 100% Ice-cold methanol
Permeabilization: 0.1% TritonX-100

Primary ab dilution: 1: 200
Primary incubation condition: 4°C overnight
Secondary ab: Goat Anti-Rabbit IgG
Nuclear counter stain: DAPI (Blue)
Counter stain: Tubulin (Red)
Comment: Color green is the positive signal for TMAB-07112

6. Cell line: HeLa

Fixative: 4% Paraformaldehyde

Permeabilization: 90% Methanol

Primary ab dilution: 1:100

Secondary ab: Goat anti Rabbit IgG

Unlabelled control: The cell without incubation with primary antibody and secondary antibody (Black line).

Isotype control: Rabbit monoclonal IgG (Blue line).

Comment: Line red is the positive signal for TMAB-07112

Application: WB,IHC-P,IHC-F,ICC/IF,IF,FCM,ChIP

Recommended WB=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50-200,IF=1:100-500,FCM=1:50-100,ChIP=6 µg/5x10⁶ cells

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Gene ID: 8350

Research Background

Modulation of the chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. The N-terminal tail of core histones undergoes different posttranslational modifications including acetylation, phosphorylation and methylation. These modifications occur in response to cell signal stimuli and have a direct effect on gene expression. In most species, the histone H2B is primarily acetylated at lysines 5, 12, 15 and 20. Histone H3 is primarily acetylated at lysines 9, 14, 18 and 23. Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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