

## Anti-Di-methyl-Histone H3 (Lys27) Antibody (3U196)

### Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse)
Clone:	3U196
Purification:	Protein A purified

### Applications

Verified Activity:	1. Cell line: HeLa
	Fixative: 4% Paraformaldehyde
	Permeabilization: 0.1% TritonX-100
	Primary ab dilution: 1:300
	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-05151
	2. Tissue: Human hepatocellular carcinoma
	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: 1:100
	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-05151	
3. Tissue: Rat stomach	
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: 1:100	
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-05151	
4. 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: HeLa, N2a, BRL, Mouse liver, Mouse kidney	
Protein loading quantity: 20 µg	
Exposure time: 15 s	
Predicted MW: 15 kDa	
Observed MW: 15 kDa	

## A DRUG SCREENING EXPERT

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Application: WB,IHC-P,IHC-Fr,ICC/IF,IF

Recommended WB: 1:500-1000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-300; IF: 1:100-500

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### 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.

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### Antigen Details

Gene ID: 8350

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### 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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