

## Anti-Di-methyl-Histone H3 (Lys4) Polyclonal Antibody 2

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,Arabidopsis,Cerastium
Purification:	Antigen affinity purification

### Applications

Verified Activity:	1. Blocking buffer: 5% NFDm/TBST
	Primary ab dilution: 1: 2000
	Primary ab incubation condition: 2 hours at room temperature
	Secondary ab: Goat Anti-Rabbit IgG H&L (HRP)
	Lysate: HeLa, 3T3, H1299
	Protein loading quantity: 20 µg
	Exposure time: 60 s
	Predicted MW: 17 kDa
	Observed MW: 17 kDa
	2. Blocking buffer: 5% NFDm/TBST
	Primary ab dilution: 1: 2000
	Primary ab incubation condition: 2 hours at room temperature
	Secondary ab: Goat Anti-Rabbit IgG H&L (HRP)
	Lysate: Arabidopsis, Mouse spleen, N2a, Cerastium
Protein loading quantity: 20 µg	
Exposure time: 60 s	
Predicted MW: 17 kDa	
Observed MW: 17 kDa	
Application:	WB,ICC/IF,ChIP
Recommended	WB: 1:500-2000; ICC/IF: 1:50-200; ChIP: 6µg/5x10 <sup>6</sup> 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
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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

correlated with chromosome condensation during both mitosis and meiosis.

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

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