Data Sheet (Cat.No.TMAB-05150)

Anti-Di-methyl-Histone H3 (Lys23) Antibody (7P148)

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Monkey)
Clone:	7P148
Purification:	Antigen affinity purification

Applications

Verified Activity:	Blocking buffer: 5% NFDM/TBST Primary Ab dilution: 1: 2000 Primary Ab incubation condition: 2 hours at room temperature Secondary Ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: HeLa, C2C12, COS-7, rH3 Protein loading quantity: 20 μg Exposure time: 60 s Predicted MW: 17 kDa Observed MW: 17 kDa
Application:	WB
Recommended	WB: 1:500-2000

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.

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