Data Sheet (Cat.No.TMAB-05163)

Anti-Di-methyl-Histone H3 (Lys9) Antibody (6Q915)

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Clone:	6Q915
Purification:	Protein G purified

Applications

Verified Activity:	1. Tissue: Human neuroblastoma 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: 200 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit (Mouse) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for TMAB-05163 2. Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1: 2000 Primary ab incubation condition: lane 1: H3 k9me2 peptides, lane 2: Unmodified peptides, lane 3:, 2 hours at room temperature Secondary ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: HeLa Protein loading quantity: 20 μg Exposure time: 30 s Predicted MW: 15 kDa Observed MW: 15 kDa 3. 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, N2a, BRL, Mouse Liver, Mouse kidney Protein loading quantity: 20 μg Exposure time: 30 s Predicted MW: 15 kDa Observed MW: 15 kDa
Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:50-100; IF: 1:100-500

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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