

Anti-Di-methyl-Histone H3 (Lys9) Antibody (7N530)

Product Details

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| Ig Type: | IgG2b |
| Reactivity: | Human,Mouse,Rat (predicted:Cow) |
| Molecular Weight: | Theoretical: 15 kDa. Actual: 15 kDa. |
| Clone: | 7N530 |
| Purification: | Protein G purified |

Applications

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| Verified Activity: | 25 µg total protein per lane of various lysates (see on figure) probed with Histone H3 (di methyl K9) monoclonal antibody, unconjugated (TMAB-07130) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min. |
| Application: | WB,ELISA |
| Recommended | WB: 1:500-2000; ELISA: 1:1000-5000 |

Properties

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| 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

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| Immunogen: | KLH conjugated synthesised methylpeptide: human Histone H3 around the methylation site of di methyl K9 |
| Antigen Species: | Human |
| Gene ID: | 8350 |
| Uniprot ID: | P68431 |

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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