# Data Sheet (Cat.No.TMAB-07102)

## Anti-Histone H3 (CAEEL) Polyclonal Antibody, Loading Control

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Caenorhabditis Elegans |
| Molecular Weight: | Theoretical: 15 kDa. Actual: 15 kDa. |
| Purification: | Protein A purified |

### Applications

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| Verified Activity: | Sample:<br>Lane 1: Caenorhabditis Elegans tissue Lysate<br>Primary: Anti-Histone H3 (CAEEL) (TMAB-07102) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 15 kD<br>Observed band size: 15 kD |
| Application: | WB |
| Recommended | WB: 1:500-2000 |

### 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: | Recombinant Protein: Caenorhabditis elegans Histone H3 |
| 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.



Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481