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**[ Primary Antibody ]**

# Mouse Anti-Butyryl-Histone H2B (Lys15)antibody

**Catalog Number: SLM-60185M**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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|---|---|
| **Host:** | Mouse |
| **Isotype:** | IgG |
| **Clonality:** | Monoclonal |
| **Clone No.:** | A3A9 |
| **Target:** | Butyryl-Histone H2B (Lys15) |
| **Purification:** | Antigen affinity purification |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000<br>ICC/IF=1:100-500<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human(predicted:Mouse,Rat) |
| **Subcellular Location:** | The nucleus |
| **Background:** | Histones undergo various enzyme-catalyzed modifications, including acetylation, methylation, phosphorylation, ubiquitination, etc. Lysine butyrylation is a newly discovered reversible modification that controls chromosome structure and gene transcription. Lysine butyrylation is highly conserved in eukaryotic cells from worms to humans. The unique structural and genomic localization of histone lysine butyrylation suggests that it is mechanistically and functionally distinct from histone lysine acetylation. Specifically, in the genomes of human somatic cells and rabbit male germ cells, histone butyrylation marks active promoters or potential enhancers. Butyrylation of histone H3 at Lys18 may play an important role in epigenetic regulation, including chromatin remodeling and DNA transcriptional regulation. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.