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**[ Primary Antibody ]**

# Mouse Anti-Butyryl-Histone H4 (Lys5)antibody

**Catalog Number: SLM-60173M**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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|---|---|
| **Host:** | Mouse |
| **Isotype:** | IgG |
| **Clonality:** | Monoclonal |
| **Clone No.:** | H12E10 |
| **Target:** | Butyryl-Histone H4 (Lys5) |
| **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>IHC-P (1:100-500)<br>IHC-F (1:100-500)<br>IF (1:100-500)<br>ChIP (6 μg/5x106 cells)<br>Not yet tested in other applications.<br>Optimal working dilutions must 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 structure and genomic localization of histone lysine butyrylation indicate that it is mechanistically and functionally different 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. The butyrylation of histone H3 at the Lys18 site may play an important role in epigenetic regulation, including chromatin remodeling and DNA transcription regulation. |

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