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[Primary Antibody]

Mouse Anti-Butyryl-Histone H2B (Lys5)antibody

Catalog Number: SLM-60182M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	C4A3
Target:	Butyryl-Histone H2B (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) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ChIP (6 μg/5x106 cells) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat)
Subcellular Location:	The nucleus
Background:	Histones undergo modifications catalyzed by various enzymes, 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. 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.