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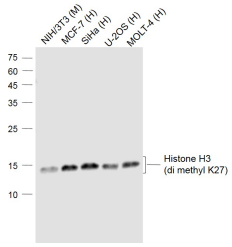
Histone H3(di methyl K27) Mouse mAb

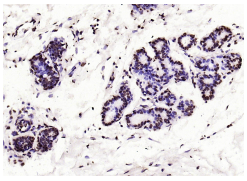
Catalog Number:	bsm-33107M
Target Protein:	Histone H3(di methyl K27)
Concentration:	1mg/ml
Form:	Size : 50ul/100ul/200ul Liquid Size : 200ug (PBS only) Lyophilized Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.
Host:	Mouse
Clonality:	Monoclonal
Clone No.:	5C11
Isotype:	IgG1
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)
Reactivity:	Human, Mouse, Rat
Predicted MW:	15 kDa
Subcellular Locations:	Nucleus
Entrez Gene:	8350
Swiss Prot:	P68431
Source:	KLH conjugated synthesised methylpeptide derived from human Histone H3 around the methylation site of di methyl K27: AR(di Methyl-K)SA.
Purification:	affinity purified by Protein G
Storage:	Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
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.

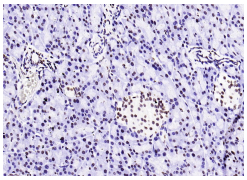
VALIDATION IMAGES



Sample: Lane 1: NIH/3T3(Mouse) Cell Lysate at 30 ug Lane 2: MCF-7 (Human) Cell Lysate at 30 ug Lane 3: SiHa (Human) Cell Lysate at 30 ug Lane 4: U-2OS (Human) Cell Lysate at 30 ug Lane 5: MOLT-4 (Human) Cell Lysate at 30 ug Primary: Anti-Histone H3(di methyl K27) (bsm-33107M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 15 kD



Paraformaldehyde-fixed, paraffin embedded (human breast); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3(di methyl K27)) Monoclonal Antibody, Unconjugated (bsm-33107M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H3(di methyl K27)) Monoclonal Antibody, Unconjugated (bsm-33107M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=3.5] Di Wu. et al. Discovery of novel pyridone-benzamide derivatives possessing a 1-methyl-2-benzimidazolinone moiety as potent EZH2 inhibitors for the treatment of B-cell lymphomas. BIOORGAN MED CHEM. 2024 Apr;:117725 WB ; Human . 38640588