

bsm-33110M**[Primary Antibody]**

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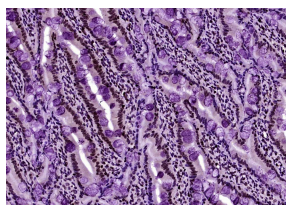
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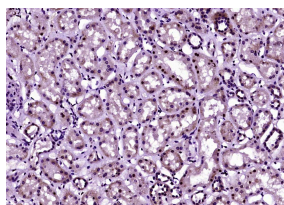
400-901-9800

Histone H3 (tri methyl K4) Mouse mAb**— DATASHEET —**

Host: Mouse	Isotype: IgG1	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Cow, Fruit Fly) Predicted MW.: 15 kDa Subcellular Location: Nucleus
Clonality: Monoclonal	CloneNo.: 4E11	
GeneID: 8350	SWISS: P68431	
Target: Histone H3 (tri methyl K4)		
Immunogen: KLH conjugated synthesised methylpeptide derived from human Histone H3 around the methylation site of Tri Methyl K4: RT(Tri Methyl-K)QT.		
Purification: affinity purified by Protein G		
Concentration: 1mg/ml		
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 —

Paraformaldehyde-fixed, paraffin embedded (Rat colon); 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 (tri methyl K4)) Monoclonal Antibody, Unconjugated (bsm-33110M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human kidney); 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 (tri methyl K4)) Monoclonal Antibody, Unconjugated (bsm-33110M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.

— SELECTED CITATIONS —

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

- **[IF=8]** Cui Guina. et al. WD repeat domain 82 (Wdr82) facilitates mouse iPSCs generation by interfering mitochondrial oxidative phosphorylation and glycolysis. CELL MOL LIFE SCI. 2023 Aug;80(8):1-15 ICC ;Mouse. 37470863
- **[IF=2.794]** Liu, Yan. et al. Sexual dimorphism of DNA and histone methylation profiles in the gonads of the olive flounder *Paralichthys olivaceus*. 2021 Jul 15 WB,IHC ;Flounders. 34264445