

Anti-Phospho-Histone H3 (Ser10) Antibody (4V982)

Product Details

Ig Type:	IgG1, Kappa
Reactivity:	Human, Mouse, Rat
Molecular Weight:	Theoretical: 15 kDa.
Clone:	4V982
Purification:	Protein G purified

Applications

Verified Activity:	1. Tissue: Human kidney
	Section type: Formalin fixed & Paraffin-embedded section
	Retrieval method: High temperature and high pressure
	Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100
	Primary ab incubation condition: 1 hour at room temperature
	Secondary ab: SP Kit (Mouse)
	Counter stain: Hematoxylin (Blue)
	Comment: Color brown is the positive signal for TMAB-10798
	2. Tissue: Mouse liver
	Section type: Formalin fixed & Paraffin-embedded section
	Retrieval method: High temperature and high pressure
	Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100
	Primary ab incubation condition: 1 hour at room temperature
Secondary ab: SP Kit (Mouse)	
Counter stain: Hematoxylin (Blue)	
Comment: Color brown is the positive signal for TMAB-10798	
3. Tissue: Rat testis	
Section type: Formalin fixed & Paraffin-embedded section	
Retrieval method: High temperature and high pressure	
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100	
Primary ab incubation condition: 1 hour at room temperature	
Secondary ab: SP Kit (Mouse)	
Counter stain: Hematoxylin (Blue)	
Comment: Color brown is the positive signal for TMAB-10798	
4. Blocking buffer: 5% NFDM/TBST	
Primary ab dilution: 1:1000	
Primary ab incubation condition: 2 hours at room temperature	
Secondary ab: Goat Anti-Mouse IgG H&L (HRP)	
Lysate: (-) HeLa, (+) HeLa+Nocodazole (100 ng/ml, 18hr)	
Protein loading quantity: 20 µg	
Exposure time: 3 s	
Predicted MW: 15 kDa	
Observed MW: 15 kDa	

A DRUG SCREENING EXPERT

Application: WB,IHC-P,IHC-Fr,ICC/IF,IF

Recommended WB: 1:500-1000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:50-200; IF: 1:100-500

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthesised phosphopeptide: human Histone H3 around the phosphorylation site of Ser10

Antigen Species: Human

Gene ID: 8350

Uniprot ID: P68431

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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