Data Sheet (Cat.No.TMAB-07113)

Anti-Tri-methyl-Histone H3 (Lys27) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Dog,Pig,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 15 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Blank control (blue line): Hela cells (fixed with 70% methanol (Overnight at 4℃) and then permeabilized with 90% ice-cold methanol for 20 min at -20℃). Primary Antibody (green line): Rabbit Anti-Histone H3 (Tri Methyl K27) antibody (TMAB-07113), Dilution: 1 μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1 μg /test. 2. Blank control (blue line): Hep G2 (fixed with 70% ethanol Overnight at 4℃. Cells stained with Primary Antibody for 30 min at room temperature). Primary Antibody (green line): Rabbit Anti-Histone H3 (Tri Methyl K27) antibody (TMAB-07113), Dilution: 1 μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1 μg /test. 3. Blank control: Mouse spleen. Primary Antibody (green line): Rabbit Anti-Histone H3 (Tri Methyl K27) antibody (TMAB-07113) Dilution: 2 μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 1 μg /test. Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
Application:	FCM
Recommended	FCM: 1μg/Test

Properties

Stability & Storage:	Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthesised methylpeptide: human Histone H3 around the methylation site of Tri Methyl K27
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.

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