

Anti-Di-methyl-Histone H3.1 (Lys4) Antibody (4I767)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Mouse
Conjugation:	Unconjugated
Clone:	4I767
Purification:	Affinity-chromatography

Applications

1. Western Blot
 - Positive WB detected in Mouse brain tissue, Mouse heart tissue
 - All lanes Di-methyl-Histone H3.1(K4) antibody at 0.55µg/ml
 - Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
 - Predicted band size: 15 KDa
 - Observed band size: 15 KDa
2. Immunocytochemistry analysis of TMAH-00346 diluted at 1:100 and staining in Hela cells performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
3. Immunofluorescence staining of Hela cells with TMAH-00346 at 1:34, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).
4. Overlay histogram showing Hela cells stained with TMAH-00346 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Verified Activity:

Application: ELISA, WB, ICC, IF, FCM

Recommended WB:1:500-1:2000; ICC:1:50-1:500; IF:1:30-1:200.

Properties

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

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide
Antigen Species:	Human
Gene ID:	8350
Uniprot ID:	P68431
Synonyms:	Di-Me-Histone H3.1 (K4);histone cluster 1, H3a;Histone H3.1;H3K4me2;Histone H3K4-dimethylated;Di-methyl-Histone H3.1 (K4);HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J;Di-Me-Histone H3.1 (Lys4);DiMe-H3K4;Histone H3
Biology Area:	Epigenetics and Nuclear Signaling

Research Background

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

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