Data Sheet (Cat.No.TMAH-00908)

Anti-Phospho-Histone H3.3 (Thr3) Antibody (2G840)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Mouse
Conjugation:	Unconjugated
Clone:	2G840
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Western Blot -Positive WB detected in:Hela whole cell lysate,293 whole cell lysate,NIH/3T3 whole cell lysate -All lanes: Phospho-Histone H3 (T3) antibody at 1.41μg/ml -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 16 KDa -Observed band size: 16 KDa 2. Immunocytochemistry analysis of TMAH-00908 diluted at 1:100 and staining in Hela cells performed on a Leica BondTM 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. Overlay histogram showing Hela cells stained with TMAH-00908 (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.
Application:	ELISA,FCM,ICC,WB
Recommended	WB:1:500-1:5000; ICC:1:50-1:500.

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:	3020
Uniprot ID:	P84243
Synonyms:	H3F3;MGC87783;Phospho-Histone H3.3 (T3);Histone H3.3 (p-T3);Histone H3.A;MGC87782; H3F3A;H3 histone family 3B;Histone H3.3 (p-Thr3);H33_HUMAN;Histone H3.B;H3.3B;H3.3A; Histone H3.3Q;H3 histone family 3A;H3.3;H3f3b;p-Histone H3.3 (T3);p-Histone H3.3 (Thr3)
Biology Area:	Epigenetics and Nuclear Signaling

Research Background

Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. 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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