Data Sheet (Cat.No.TMAH-00773)

Anti-Mono-methyl-Histone H3.1 (Lys36) Antibody (9V271)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9V271
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Western Blot -Positive WB detected in HepG2 whole cell lysate, SH-SY5Y whole cell lysate, Rat brain tissue -All lanes Mono-methyl-Histone H3.1(K36)antibody at 0.6μg/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-00773 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. Immunofluorescence staining of Hela cells with TMAH-00773 at 1:37.5,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-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).
Application:	ELISA,ICC,IF,WB
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:	H3K36me1;MonoMe-H3K36;Histone H3K36-monomethylated;histone cluster 1, H3a;Mono-Me-Histone H3.1 (K36);Mono-methyl-Histone H3.1 (K36);Histone H3.1;HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J;Histone H3;Mono-Me-Histone H3.1 (Lys36)
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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