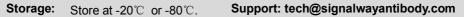


Histone H3K27me3 Polyclonal Antibody

Catalog: HW008 100µl Orders: order@signalwayantibody.com



Avoid freeze / thaw cycles. Web: www.sabbiotech.com



Application	Species Reactivity	Source	Molecular Wt.
WB IHC IF IP ChIP	Hu Mu Rt Other(Wide range)	Rabbit Polyconal Ab	15kDa

Description: Antibodies were produced by immunizing rabbits and

were purified by antigen affinity-chromatography.

Immunogen: A synthetic methylated peptide corresponding to

residues surrounding K27 of human histone H3

Formulation: Buffer: PBS with 0.02% sodium azide, 50% glycerol,

pH7.3.

Synonyms: HIST1H3J; H3/j; H3FJ; Histone H3.1; Histone H3/a;

Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/l; Histone H3/k;

Histone H3/I; HIST3H3;

Accession No.: Gene ID: 8290 Swiss Prot: Q16695

Background:

Modulation of chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of DNA wound around eight core histone proteins (two each of H2A, H2B, H3, and H4), is the primary building block of chromatin (1). The amino-terminal tails of core histones undergo various post-translational modifications, including acetylation, phosphorylation, methylation, and ubiquitination (2-5). These modifications occur in response to various stimuli and have a direct effect on the accessibility of chromatin to transcription factors and, therefore, gene expression (6). In most species, histone H2B is primarily acetylated at Lys5, 12, 15, and 20 (4,7). Histone H3 is primarily acetylated at Lys9, 14, 18, 23, 27, and 56. Acetylation of H3 at Lys9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms (2,3). Phosphorylation at Ser10, Ser28, and Thr11 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis (8-10). Phosphorylation at Thr3 of histone H3 is highly conserved among many species and is catalyzed by the kinase haspin. Immunostaining with phospho-specific antibodies in mammalian cells reveals phosphorylation at Thr3 of H3 in prophase and its dephosphorylation during anaphase (11).

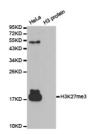
References:

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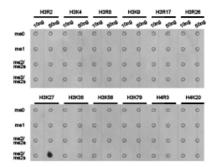
Application:

Recommended Dilutions:

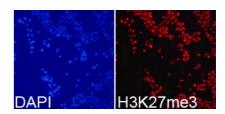
WB 1:500 - 1:2000
IHC 1:50 - 1:200
IF 1:50 - 1:200
IP 1:50 - 1:200
ChIP 1:50 - 1:200



Western blot analysis of extracts of HeLa cell line and H3 protein expressed in E.coli., using H3K27me3antibody.



Dot-blot analysis of all sorts of methylation peptides using H3K27me3 antibody.



Immunofluorescence analysis of 293T cell using H3K27me3 antibody. Blue: DAPI for nuclear staining.

This product is for in vitro research use only and is not intended for use in humans or animals.