

Rabbit Histone H3K27me1 Polyclonal Antibody | anti-HIST3H3 antibody

Histone H3K27me1 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA268235	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

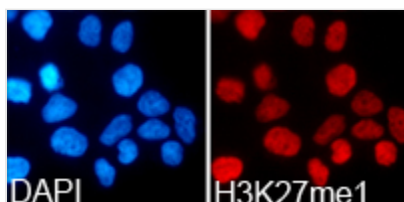
PRODUCT SYNONYMS

Histone H3K27me1; Polyclonal Antibody; Histone H3K27me1 Polyclonal Antibody; 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/i; HistoneH3/j; Histone H3/k; Histone H3/l; HIST3H3; anti-HIST3H3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Sequence Length	136
Applicable Applications for anti-HIST3H3 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic methylated peptide corresponding to residues surrounding K27 of human histone H3
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze/thaw cycles.

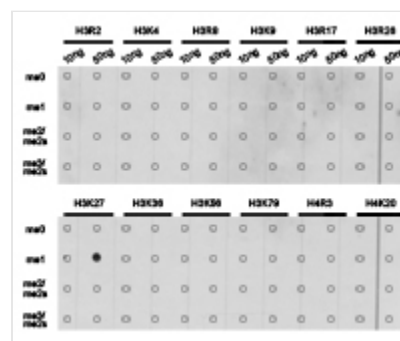
IMAGES



DB (Dot Blot)

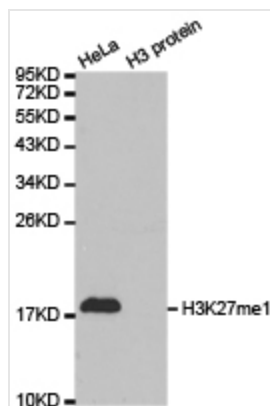
Dot-blot analysis of all sorts of methylation peptides using H3K27me1 antibody.

Immunofluorescence analysis of 293T cell using H3K27me1 antibody.



WB (Western Blot)

Western blot analysis of extracts of HeLa cell line and H3 protein expressed in E. coli., using H3K27me1 antibody.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-HIST3H3 antibody	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 mitotic phosphorylation at Thr3 of H3 in prophase and its dephosphorylation during anaphase (11).
References	1. Workman, J.L. and Kingston, R.E. (1998) Annu Rev Biochem 67, 545-79. 2. Hansen, J.C. et al. (1998) Biochemistry 37, 17637-41. 3. Strahl, B.D. and Allis, C.D. (2000) Nature 403, 41-5. 4. Cheung, P. et al. (2000) Cell 103, 263-71. 5. Bernstein, B.E. and Schreiber, S.L. (2002) Chem Biol 9, 1167-73. 6. Jaskelioff, M. and Peterson, C.L. (2003) Nat Cell Biol 5, 395-9. 7. Thorne, A.W. et al. (1990) Eur J Biochem 193, 701-13. 8. Hendzel, M.J. et al. (1997) Chromosoma 106, 348-60. 9. Goto, H. et al. (1999) J Biol Chem 274, 25543-9. 10. Preuss, U. et al. (2003) Nucleic Acids Res 31, 878-85. 11. Dai, J. et al. (2005) Genes Dev 19, 472-88.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504299
NCBI GeneID	8290
NCBI Accession #	NP_003484.1
NCBI GenBank Nucleotide #	NM_003493.2
UniProt Accession #	Q16695; Q6FGU4; B2R5K3
Molecular Weight	15kDa
NCBI Official Full Name	histone H3.1t
NCBI Official Synonym Full Names	histone cluster 3 H3
NCBI Official Symbol	HIST3H3
NCBI Official Synonym Symbols	H3t; H3.4; H3/g; H3FT
NCBI Protein Information	histone H3.1t
UniProt Protein Name	Histone H3.1t
UniProt Gene Name	HIST3H3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-h3k27me1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/268235>