Rabbit Histone H3R8me1 Polyclonal Antibody | anti-HIST3H3 antibody

Histone H3R8me1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA307220	**Rabbit**	**Human, Mouse, Rat**	**Chromatin Immunoprecipitation, Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

Histone H3R8me1; Polyclonal Antibody; Histone H3R8me1 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
Purity/Purification	Antibodies were produced by immunizing rabbits and were purified by antigen affinity-chromatography.
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	136
Applicable Applications for anti-HIST3H3 antibody	ChIP (Chromatin immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	A synthetic methylated peptide corresponding to residues surrounding R8 of human histone H3
Modification	R8me1
Target Name	Histone H3
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze / thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence analysis of 293T cell using H3R8me1 antibody. Blue: DAPI for nuclear staining.



DB (Dot Blot)
Dot-blot analysis of all sorts of methylation peptides using H3R8me1 antibody.



WB (Western Blot)
Western blot analysis of extracts of HeLa cell line and H3 protein expressed in E Coli., using H3R8me1antibody.

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).
Product Categories/Family for anti-HIST3H3 antibody	Methyl-specific Ab

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	15,508 Da
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**
UniProt Synonym Gene Names	H3FT; H3/t; H3t
UniProt Entry Name	H31T_HUMAN

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-h3r8me1-antibody-chromatin-immunoprecipitation-immunofluorescence-immunohistochemistry-western-blot-elisa/307220