

## Rabbit Histone H3K79me3 Polyclonal Antibody | anti-HIST3H3 antibody

Histone H3K79me3 Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                                                                    |
|-----------|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| AAA268238 | Rabbit | Human, Mouse, Rat | Chromatin Immunoprecipitation, Immunoprecipitation, Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot |

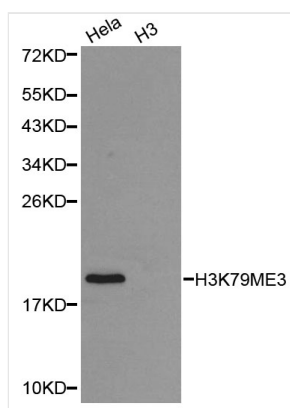
### PRODUCT SYNONYMS

Histone H3K79me3; Polyclonal Antibody; Histone H3K79me3 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; Histone H3/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 | ChIP (Chromatin immunoprecipitation), IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                         | A synthetic methylated peptide corresponding to residues surrounding K79 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



#### WB (Western Blot)

Western blot analysis of extracts of HeLa cell line and H3 protein expressed in E. coli., using H3K79me3 antibody.

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) ChemBiol 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 BiolChem 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                |
| UniProt Synonym Gene Names       | H3FT; H3/t; H3t        |

**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-h3k79me3-antibody-chromatin-immunoprecipitation-immunoprecipitation-immunofluorescence-immunohistochemistry-western-blot-elisa/268238>