

## Rabbit H3R17me1 Antibody | anti-H3R17me1 antibody

Histone H3R17me1 Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY                            | APPLICATIONS                                                                                                                                                                        |
|-----------|--------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AAA36802  | Rabbit | Human, Mouse, Rat, Other (Wide Range) | Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation, Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot |

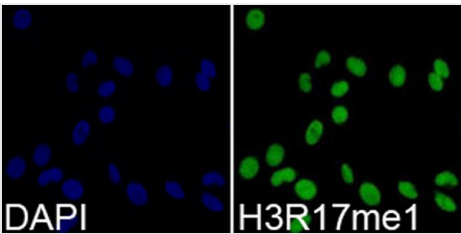
### PRODUCT SYNONYMS

H3R17me1; Histone H3R17me1 Polyclonal Antibody; MonoMethyl-Histone H3-R17: 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; anti-H3R17me1 antibody

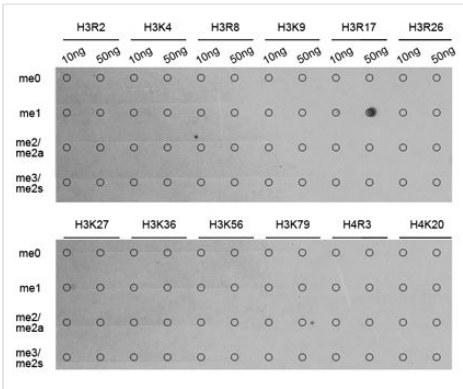
### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                       |
| Reactivity                                         | Human, Mouse, Rat, Other (Wide Range)                                                                                                                                        |
| Isotype                                            | IgG                                                                                                                                                                          |
| Purity/Purification                                | Affinity Purification                                                                                                                                                        |
| Form/Format                                        | PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.                                                                                                                            |
| Concentration                                      | 1mg/ml (varies by lot)                                                                                                                                                       |
| Sequence Length                                    | 136                                                                                                                                                                          |
| Applicable Applications for anti-H3R17me1 antibody | ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation), IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Species                                            | Human                                                                                                                                                                        |
| Route                                              | Synthetic Peptide                                                                                                                                                            |
| Immunogen                                          | A synthetic mono-methylated peptide corresponding to residues surrounding Arg17 of human histone H3                                                                          |
| Calculated Molecular Weight                        | 15kDa                                                                                                                                                                        |
| Preparation and Storage                            | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                        |

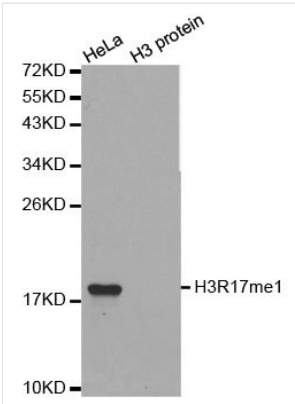
IMAGES



**IF (Immunofluorescence)**  
Immunofluorescence analysis of 293T cells using MonoMethyl-Histone H3-R17 antibody.  
Blue: DAPI for nuclear staining.



**DB (Dot Blot)**  
Dot-blot analysis of all sorts of methylation peptides using MonoMethyl-Histone H3-R17 antibody.



**WB (Western Blot)**  
Western blot analysis of extracts of various cell lines, using MonoMethyl-Histone H3-R17 antibody. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-H3R17me1 antibody</b> | 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). |
| <b>Product Categories/Family for anti-H3R17me1 antibody</b>   | Methylation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>           | 55977055                                                                                       |
| <b>NCBI GeneID</b>         | 8356                                                                                           |
| <b>UniProt Accession #</b> | P68431; P02295; P02296; P16106; Q6ISV8; Q6NWP8; Q6NWP9; Q6NXU4; Q71DJ3; Q93081; A0PJT7; A5PLR1 |

|                                         |                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------|
| <b>Molecular Weight</b>                 | 136                                                                     |
| <b>NCBI Official Full Name</b>          | Histone H3.1                                                            |
| <b>NCBI Official Synonym Full Names</b> | histone cluster 1, H3j                                                  |
| <b>NCBI Official Symbol</b>             | HIST1H3J                                                                |
| <b>NCBI Official Synonym Symbols</b>    | H3/j; H3FJ                                                              |
| <b>NCBI Protein Information</b>         | histone H3.1; histone H3/j; histone 1, H3j; H3 histone family, member J |
| <b>UniProt Protein Name</b>             | Histone H3.1                                                            |
| <b>UniProt Gene Name</b>                | <b>HIST1H3A</b>                                                         |
| <b>UniProt Synonym Gene Names</b>       | H3FA                                                                    |
| <b>UniProt Entry Name</b>               | H31_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/rabbit-human-mouse-rat-antibody/h3r17me1/36802>