

## Rabbit Histone H3K4me1 Monoclonal Antibody | anti-H3K4me1 antibody

Histone H3K4me1 antibody (mAb)(Clone MAB1 0302)

| CATALOG # | HOST   | REACTIVITY                  | APPLICATIONS                                                                                                                   |
|-----------|--------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| AAA59901  | Rabbit | Human, Wide Range Predicted | Western Blot, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation |

### PRODUCT SYNONYMS

Histone H3K4me1; Monoclonal Antibody; Histone H3K4me1 antibody (mAb)(Clone MAB1 0302); anti-H3K4me1 antibody

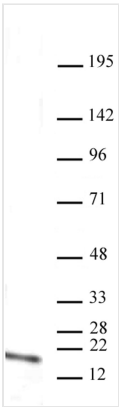
### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                                                                                                                                                    |
| Reactivity                                        | Human, Wide Range Predicted                                                                                                                                                                                                                                                               |
| Clonality                                         | Monoclonal                                                                                                                                                                                                                                                                                |
| Isotype                                           | IgG2b                                                                                                                                                                                                                                                                                     |
| Clone Number                                      | MAB1 0302                                                                                                                                                                                                                                                                                 |
| Purity/Purification                               | Protein G Chromatography                                                                                                                                                                                                                                                                  |
| Form/Format                                       | PBS pH7.5 containing 30% glycerol. 0.3M NaCl, and 0.035% sodium azide. Sodium azide is highly toxic.                                                                                                                                                                                      |
| Concentration                                     | 1ug/ul (varies by lot)                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-H3K4me1 antibody | WB (Western Blot), DB (Dot Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)                                                                                                                                                                              |
| Conjugation                                       | Methylated                                                                                                                                                                                                                                                                                |
| Immunogen                                         | The Histone H3 monomethyl Lys4 antibody was raised against a peptide containing monomethyl lysine 4 of human histone H3.                                                                                                                                                                  |
| Abs Residue                                       | Lys                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                           | Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul |

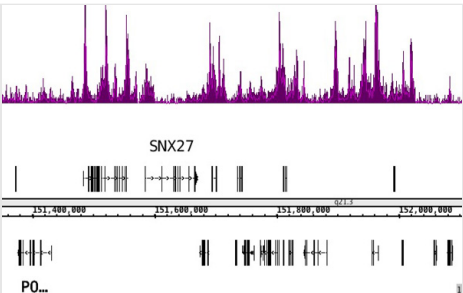
IMAGES



**DB (Dot Blot)**  
Histone H3 monomethyl Lys4 antibody (mAb) tested by Dot Blot Dot Blot analysis was used to confirm the specificity of Histone H3 monomethyl Lys4 antibody (mAb) for monomethyl Lys4 histone H3. Methylated peptides corresponding to the immunogen or related peptides were spotted onto PVDF and probed with antibody at 1 ug/ml. Lane 1: unmodified peptide, Lane 2: Monomethyl Lys4, Lanes 3-8: various negative control peptides.



**WB (Western Blot)**  
Histone H3 monomethyl Lys4 antibody (mAb) tested by Western blot. HeLa acid extract probed with Histone H3 monomethyl Lys4 antibody (mAb) (2 ug/ml dilution).



**ChIP (Chromatin Immunoprecipitation)**  
Histone H3K4me1 antibody (mAb) tested by ChIP-Seq ChIP was performed using 10 ug of chromatin from MCF7 cells and 4 ug of antibody. ChIP DNA was sequenced and 19 million sequence tags were mapped to identify Histone H3K4me1 binding sites.

ADDITIONAL INFORMATION

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-H3K4me1 antibody</b> | <p>Short Description: Our Histone H3K4me1 antibody (mAb)(Clone MAB1 0302) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, Dot blot and Western blot; it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types.</p> <p>Background: Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of Histone H2A, Histone H2B, Histone H3 and Histone H4). Histone H1 is a linker histone, present at the interface between the nucleosome core and DNA entry/exit points. Histone H1 is responsible for establishing higher-order chromatin structure. Chromatin is subject to a variety of chemical modifications, including post-translational modifications of the histone proteins and the methylation of cytosine residues in the DNA. Reported histone modifications include acetylation, methylation, phosphorylation, ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation; these modifications play a major role in regulating gene expression. The methylation of histones can occur on two different residues: arginine or lysine. Histone methylation can be associated with transcriptional activation or repression, depending on the methylated residue. Lysine 4 of histone H3 can be mono-, di- or trimethylated by different histone methyltransferases (HMTs) such as SET1 or ASH1. Methylation of Lys4 is often associated with transcriptional activation. The demethylase LSD1 is able to demethylate histone H3 Lys4.</p> |
| <b>Product Categories/Family for anti-H3K4me1 antibody</b>   | <a href="#">Primary Antibodies</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                         |       |
|-------------------------|-------|
| <b>Molecular Weight</b> | 17kDa |
|-------------------------|-------|

**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://stage.aaabiotech.com/monoclonal/histone-h3k4me1-antibody-clone-mabi-0302-western-blot-dot-blot-chromatin-immunoprecipitation-chromatin-immunoprecipitation-elisa/59901>