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Datasheet for ABIN6952338  
**anti-Histone 3 antibody (H3K27me3)**

### Overview

|                      |   |
|----------------------|---|
| Quantity:            | 50 µg   |
| Target:              | Histone 3 (H3)  |
| Binding Specificity: | H3K27me3  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This Histone 3 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), Immunofluorescence (IF), ELISA, Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), ChIP DNA-Sequencing (ChIP-seq), Cleavage Under Targets and Tagmentation (CUT&Tag) |

### Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | synthetic peptide  |
| Specificity:      | Polyclonal antibody raised in rabbit against against histone H3, trimethylated at lysine 27 (H3K27me3), using a KLH-conjugated synthetic peptide.  |
| Cross-Reactivity: | Arabidopsis, Cow (Bovine), Fruit Fly ( <i>Drosophila melanogaster</i> ), Mouse (Murine), Pig (Porcine), Rat ( <i>Rattus</i> ), <i>Schistosoma japonicum</i> , Zebrafish ( <i>Danio rerio</i> ) |
| Purification:     | Peptide affinity purified  |
| Grade:            | ChIP-seq Grade   |

## Target Details

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|                   |   |
|-------------------|---|
| Target:           | Histone 3 (H3)  |
| Alternative Name: | Histone 3 ( <a href="#">H3 Products</a> )   |
| Background:       | <p>Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. In addition to the genetic code, combinations of the different histone modifications reveal the so-called "histone code". Histone methylation and demethylation is dynamically regulated by respectively histone methyl transferases and histone demethylases. Trimethylation of histone H3K27 is associated with gene repression.</p> |
| UniProt:          | <a href="#">P68431</a>  |

## Application Details

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|--------------------|---|
| Application Notes: | ChIP/ChIP-seq 1 µg:ChIP<br>ELISA 1:5,000<br>Dot Blot 1:20,000<br>WB 1:1,000<br>IF 1:500 |
| Restrictions:      | For Research Use only   |

## Handling

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|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1.6 µg/µL  |
| Buffer:            | PBS, 0.05 % azide, 0.05 % ProClin300   |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |