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Datasheet for ABIN6952362  
**anti-Histone 3 antibody (H3K9me3)**

### Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K9me3
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), Peptide Array (PeA)

### Product Details

Immunogen:	synthetic peptide
Specificity:	Polyclonal antibody raised in rabbit against the region of histone H3 containing the trimethylated lysine 9 (H3K9me3), using a KLH-conjugated synthetic peptide.
Cross-Reactivity:	Mouse (Murine), Yeast ( <i>Saccharomyces cerevisiae</i> )
Cross-Reactivity (Details):	broad range
Purification:	Peptide affinity purified
Grade:	ChIP-seq Grade

## Target Details

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Target: Histone 3 (H3)

Alternative Name: Histone 3 ([H3 Products](#))

Background: 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 H3K9 is associated with inactive genomic regions, satellite repeats and ZNF gene repeats.

UniProt: [P68431](#)

## Application Details

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Application Notes:      ChIP/ChIP-seq 1 µg:ChIP  
                                  ELISA 1:1,000  
                                  Dot Blot 1:20,000  
                                  Peptide array 1:5,000  
                                  WB 1:1,000  
                                  IF 1:250

Restrictions:              For Research Use only

## Handling

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Format:                     Liquid

Concentration:             0.9 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