Datasheet for ABIN6952339

anti-Histone 3 antibody (H3K27me3)

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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 Release Using Nuclease (CUT&RUN), Sample Normalization and Antibody Profiling ChIP (SNAP-ChIP)

Product Details

Immunogen:	synthetic peptide
Specificity:	Polyclonal antibody raised in rabbit against the region of histone H3 containing the trimethylated lysine 27 (H3K27me3), using a KLH-conjugated synthetic peptide.
Cross-Reactivity:	Arabidopsis, Caenorhabditis elegans (C. elegans), Daphnia, Fruit Fly (Drosophila melanogaster), Maize/Corn (Zea mays), Mouse (Murine), Poplar (Populus), Red Algae (Chondrus), Tomato (Solanum lycopersicum)
Cross-Reactivity (Details):	wide range
Purification:	Peptide affinity purified
Grade:	ChIP-seq Grade

Target Details

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. Methylation of histone H3K27 is associated with inactive genomic regions.
UniProt:	P68431

Application Details

Application Notes:	ChIP/ChIP-seq 1 - 2 µg:ChIP ELISA 1:100 - 1:500 Dot Blot 1:5,000 WB 1:1,000 IF 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.1 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

Publications

Product cited in:	Wang, Zhao, Liu, Wang, Qiao, Yi, Jiang, Kou, Zhao, Yin, Li, Wang, Jiang, Gao, Chen: "BMP4 preserves the developmental potential of mESCs through Ube2s- and Chmp4b-mediated chromosomal stability safeguarding." in: **Protein & cell**, (2022) (PubMed).