

Datasheet for ABIN6952351
anti-Histone 3 antibody (H3K4me3)[Go to Product page](#)

1 Publication

Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K4me3
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), Cleavage Under Targets and Tagmentation (CUT&Tag), Peptide Array (PeA), 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 4 (H3K4me3), using a KLH-conjugated synthetic peptide.
Cross-Reactivity:	Arabidopsis, Daphnia, Maize/Corn (Zea mays), Mouse (MURINE), Poplar (Populus), Rice (Oryza sativa), Tomato (Solanum lycopersicum), Trout, Zebrafish (Danio rerio)
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:	<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. Methylation of histone H3K4 is associated with activation of gene transcription.</p>
UniProt:	P68431

Application Details

Application Notes:	ChIP/ChIP-seq<1 µg:ChIP ELISA 1:1,000 Dot Blot 1:10,000 Peptide Array 1:10,000 WB 1:1,000 IF 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.4 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: Schreiber, Mercier, Jiménez, Ye, García-Sánchez, Klein, Meunier, Ghimire, Birck, Jost, de Lichtenberg, Honoré, Serup, Gradwohl: "Extensive NEUROG3 occupancy in the human pancreatic endocrine gene regulatory network." in: **Molecular metabolism**, Vol. 53, pp. 101313, (2021) ([PubMed](#)).