



Datasheet for ABIN3023272

anti-Histone 3 antibody (H3K79me)



[Go to Product page](#)

7 Images

1 Publication

Overview

Quantity:	100 µL
Target:	Histone 3 (H3)
Binding Specificity:	H3K79me
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Immunoprecipitation (IP), ChIP DNA-Sequencing (ChIP-seq)

Product Details

Immunogen:	A synthetic methylated peptide corresponding to residues surrounding K79 of human histone H3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Methylated Antibodies
Purification:	Affinity purification

Target Details

Target:	Histone 3 (H3)
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Target Details

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

Background: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails, instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.,H3.4,H3/g,H3FT,H3t,HIST3H3,Histone H3,HIST1H3A,Signal Transduction,MAPK-Erk Signaling Pathway,MAPK-P38 Signaling Pathway,Epigenetics & Nuclear Signaling,Epigenetic Modifications,Methylation,Histone H3

Molecular Weight: 15 kDa

Gene ID: 8290

UniProt: [Q16695](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200,IP,1:50 - 1:200,ChIP,1:20 - 1:100,ChIP-seq,1:20 - 1:100

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid freeze / thaw cycles

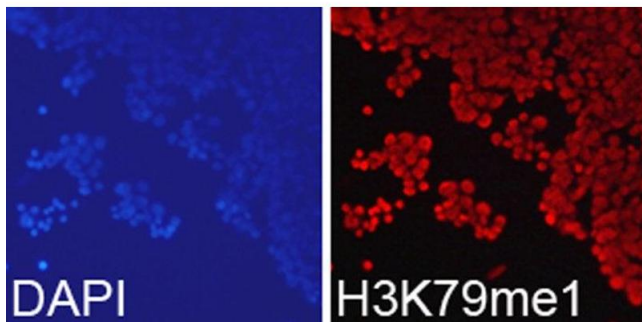
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Product cited in:

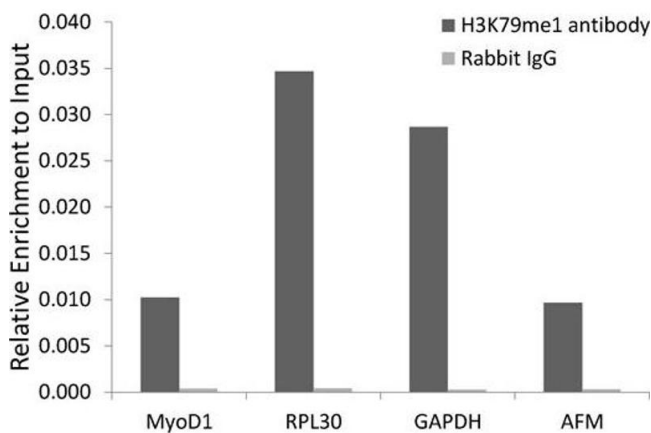
Cao, Liu, Yue, Liu, Pei, Gu, Wang, Jia: "Iron chelation inhibits cancer cell growth and modulates global histone methylation status in colorectal cancer." in: **Biometals : an international journal on the role of metal ions in biology, biochemistry, and medicine**, Vol. 31, Issue 5, pp. 797-805, (2018) ([PubMed](#)).

Images



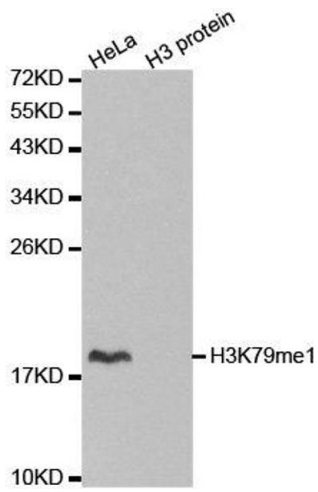
Immunofluorescence

Image 1. Immunofluorescence analysis of 293T cell using H3K79me1 antibody. Blue: DAPI for nuclear staining.



Chromatin Immunoprecipitation

Image 2.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using MonoMethyl-Histone H3-K79 antibody.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3023272.