

Datasheet for ABIN3016030

anti-Histone 3 antibody (H3K9me3)

23 Images

7 Publications

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Overview

Quantity:	100 µL
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), Immunohistochemistry (IHC), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB)

Product Details

Immunogen:	A synthetic methylated peptide corresponding to residues surrounding K9 of human histone H3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Methylated Antibodies
Purification:	Affinity purification

Target Details

Target:	Histone 3 (H3)
Alternative Name:	Histone H3 (H3 Products)

Target Details

Background:	<p>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</p>
Molecular Weight:	15 kDa
Gene ID:	8290
UniProt:	Q16695

Application Details

Application Notes:	DB,1:500 - 1:2000,WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200,ChIP,1:50 - 1:200
Restrictions:	For Research Use only

Handling

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

Publications

Product cited in:	Zuo, Rong, Li, Lv, Lan, Tong: "The histone methyltransferase SETD2 is required for expression of acrosin-binding protein 1 and protamines and essential for spermiogenesis in mice." in: The Journal of biological chemistry , Vol. 293, Issue 24, pp. 9188-9197, (2019) (PubMed).
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Zhao, Zhang, Chen, Wang, Li, Cheng, Duan, Zhu, Wei, Li, Wu, Han, Yu, Gao, Li, Wong: "Dissecting the precise role of H3K9 methylation in crosstalk with DNA maintenance methylation in mammals." in: **Nature communications**, Vol. 7, pp. 12464, (2018) ([PubMed](#)).

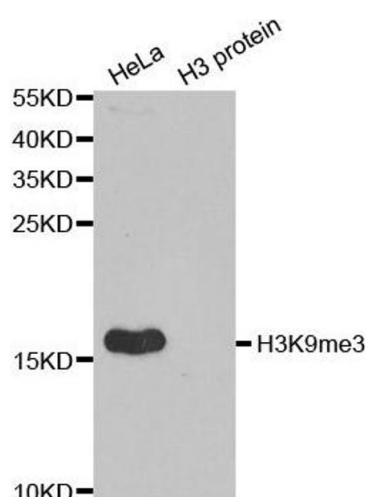
Fan, Lv, Huo, Wu, Wang, Cheng, Liu, Tang, Zhang, Zhang, Zheng, Wu, Wen: "The nuclear matrix protein HNRNPU maintains 3D genome architecture globally in mouse hepatocytes." in: **Genome research**, Vol. 28, Issue 2, pp. 192-202, (2018) ([PubMed](#)).

Yu, Liu, Liu, Wang, Liu, Miao, Du, Yang: "Ascorbic acid induces global epigenetic reprogramming to promote meiotic maturation and developmental competence of porcine oocytes." in: **Scientific reports**, Vol. 8, Issue 1, pp. 6132, (2018) ([PubMed](#)).

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

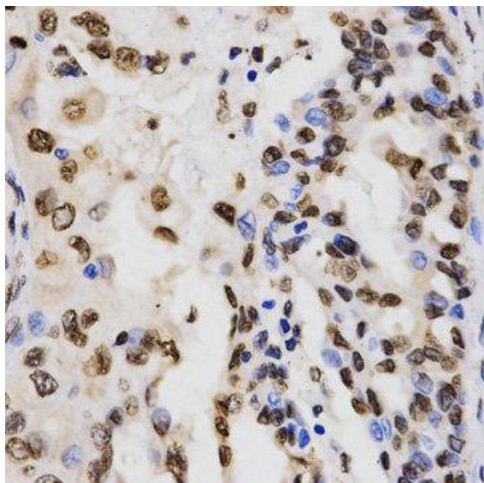
There are more publications referencing this product on: [Product page](#)

Images



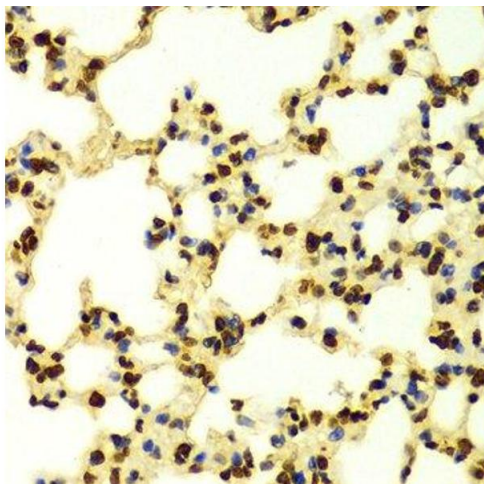
Western Blotting

Image 1.



Immunohistochemistry

Image 2.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded Mouse lung using TriMethyl-Histone H3-K9 antibody.

Please check the [product details page](#) for more images. Overall 23 images are available for ABIN3016030.