

Datasheet for ABIN5706783 anti-Histone 3 antibody (H3K9me)





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Overview

Quantity:	50 μg
Target:	Histone 3 (H3)
Binding Specificity:	H3K9me
Reactivity:	Human, Mouse, C. elegans
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), Multiplex Assay (MA), Fluorescence Microscopy (FM)

Product Details

Purpose:	Histone H3 K9me1 Antibody
Immunogen:	Immunogen: Histone H3 [Monomethyl Lys9] affinity purified antibody was prepared from whole
	rabbit serum produced by repeated immunizations with a synthetic monomethylated peptide
	surrounding Lysine 9 of human Histone H3.2.
	Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody reacts with human Histone H3.
Characteristics:	Synonyms: rabbit anti-Histone H3 monomethyl Lys9 antibody, H3.3B, H3 histone, family 3A,
	H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3K9me1

Product Details

Product Details	
Purification:	Anti-Histone H3 [Monomethyl Lys9] was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Sterility:	Sterile filtered
Target Details	
Target:	Histone 3 (H3)
Alternative Name:	Histone H3 (H3 Products)
Background:	Background: Histone H3 K9 methylation is a conserved epigenetic silencer of transcription. However, for this modification to make its effect, the G9a/GLP heteromeric complex is required to methylate histone H3. Throughout development of normal tissues, DNA methylation and stable gene silencing is required to optimize cellular development. Likewise, in cancer, dysfunctions in these normal functions are required to enhance cellular proliferation. When K3K9 me1 silences the expression of RIZ1, normal apoptosis of pre-cancerous cells does not occur, and proliferation goes ahead unabated. From H3K9me1, conversion to H3K9me3 is mediated by SUVR4, at transposons and pseudogenes. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.
Gene ID:	126961
NCBI Accession:	NP_001005464
UniProt:	Q71DI3

Application Details

Application Notes:

Immunohistochemistry Dilution: 1:500

Application Note: Anti-Histone H3 [Monomethyl Lys9] antibody is tested for Western Blot, Chromatin Immunoprecipitation, Dot Blot, and Immunocytochemistry/Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15.4 kDa corresponding to Histone H3 protein by Western Blotting in HeLa histone prep lysate or the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals.

ChIP Dilution: 2-5 µg/million cells

Western Blot Dilution: 1:500

IF Microscopy Dilution: 1:500

Other: Dot Blot 0.5 µg/mL

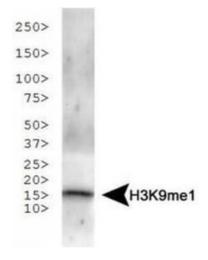
Application Details

earch Use only

Handling

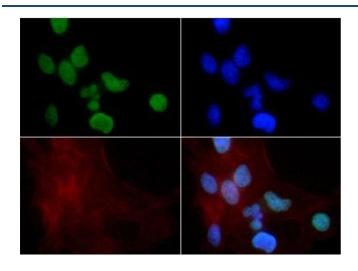
Format:	Liquid
Concentration:	0.7 mg/mL
Buffer:	Optional[Buffer]: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



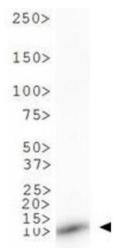
Western Blotting

Image 1. Western Blot of Rabbit Anti-Histone H3 [Monomethyl Lys9] Antibody. Lane 1: NIH-3T3 histone preps. Load: 30 μg per lane. Primary antibody: Histone H3 [Monomethyl Lys9] at 1:500 for overnight at 4 °C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5 % BLOTTO overnight at 4 °C. Predicted/Observed size: ~15 kDa. Other band(s): None.



Fluorescence Microscopy

Image 2. Immunofluorescence of Rabbit Anti-Histone H3 [Monomethyl Lys9] Antibody. Tissue: HeLa cells. Fixation: 0.5 % PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [Monomethyl Lys9] antibody at a 1:50 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [Monomethyl Lys9] is nuclear and chromosomal. Staining: Histone H3 [Monomethyl Lys9] is expressed in green and the nuclei and actin are counterstained with DAPI (blue) and Phalloidin (red).



Western Blotting

Image 3. Western Blot of Rabbit Anti-Histone H3 [Monomethyl Lys9] Antibody. Lane 1: C. elegans embryo lysate. Load: 30 µg per lane. Primary antibody: Histone H3 [Monomethyl Lys9] at 1:500 for overnight at 4 °C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5 % BLOTTO overnight at 4 °C. Predicted/Observed size: ~15 kDa. Other band(s): None.

Please check the product details page for more images. Overall 5 images are available for ABIN5706783.