

Datasheet for ABIN5706763  
**anti-Histone 3 antibody (H3K36me)**



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4 Images

## Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K36me
Reactivity:	Human, 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 K36me1 Antibody
Immunogen:	Immunogen: Histone H3 [Monomethyl Lys36] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic monomethylated peptide surrounding Lysine 36 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 Lys36 antibody, H3.3B, H3.3AH3F3H3F3B, H3 histone, family 3A, histone H3.3, MGC87783, MGC87782, H3K36me1

## Product Details

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Purification:	Anti-Histone H3 [Monomethyl Lys36] was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Sterility:	Sterile filtered

## Target Details

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Target:	Histone 3 (H3)
Alternative Name:	Histone H3 ( <a href="#">H3 Products</a> )
Background:	<p>Background: Chromatin is the arrangement of DNA and proteins in which chromosomes are formed. Correspondingly, chromatin is formed from nucleosomes, which are comprised of a set of four histone proteins (H2A, H2B, H3, H4) wrapped with DNA. Chromatin is a very dynamic structure in which numerous post-translational modifications work together to activate or repress the availability of DNA to be copied, transcribed, or repaired. These marks decide which DNA will be open and commonly active (euchromatin) or tightly wound to prevent access and activation (heterochromatin). Common histone modifications include methylation of lysine and arginine, acetylation of lysine, phosphorylation of threonine and serine, and sumoylation, biotinylation, and ubiquitylation of lysine. Conversion from trimethyl to di- and singly methylated forms also occurs via the transcriptional repressor JHDM3A. H3K36Me1 has been associated with the timing of replication factor Cdc45 association with replicating origins. H3K36Me1 could have important influence over the conserved multiprotein complex and minichromosome maintenance proteins. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.</p>
Gene ID:	126961
NCBI Accession:	<a href="#">NP_001005464</a>
UniProt:	<a href="#">Q71DI3</a>

## Application Details

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Application Notes:	<p>Immunohistochemistry Dilution: 1:500</p> <p>Application Note: Anti-Histone H3 [Monomethyl Lys36] antibody is tested in Western Blot, Dot Blot, and Immunofluorescence. This antibody is useful for Chromatin Immunoprecipitation and Immunocytochemistry. 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.</p>
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## Application Details

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ChIP Dilution: 2-5 µg/million cells

Western Blot Dilution: 1:1000

IF Microscopy Dilution: 1:500

Other: Dot Blot 0.5 µg/mL

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 0.45 mg/mL

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Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 30 % Glycerol

Preservative: 0.01 % (w/v) Sodium Azide

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Preservative: Sodium azide

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

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Storage: 4 °C, -20 °C

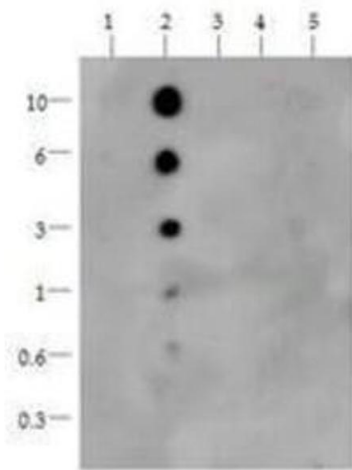
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Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

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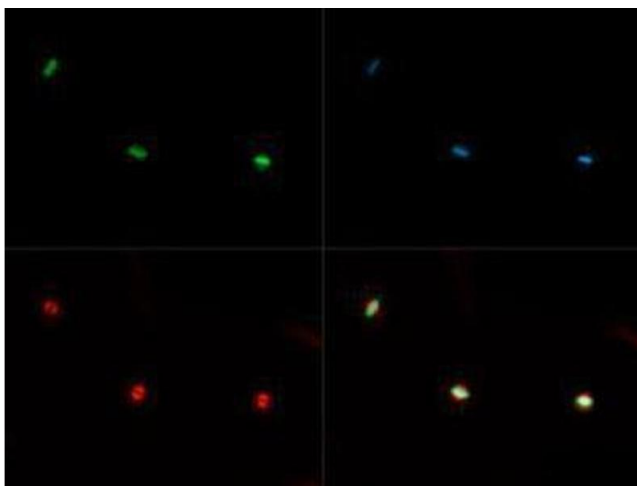
Expiry Date: 12 months

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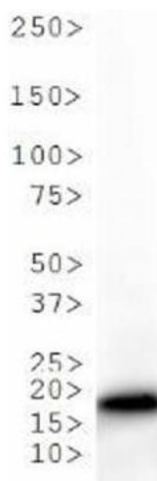
### Dot Blot

**Image 1.** Dot Blot of Rabbit Histone H3 [Monomethyl Lys36] Antibody. Lane 1: K36. Lane 2: K36Me1. Lane 3: K36Me2. Lane 4: K36Me3. Lane 5: K36ac. Load: 0.3, 0.6, 1, 3, 6, and 10 picomoles of peptide. Primary antibody: Histone H3 [Monomethyl Lys36] antibody at 0.5 µg/mL for 45 min at 4 °C. Secondary antibody: Dylight™488 rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5 % BLOTTO overnight at 4 °C.



### Fluorescence Microscopy

**Image 2.** Immunofluorescence of Rabbit Anti-Histone H3 [Monomethyl Lys36] Antibody. Tissue: HeLa cells. Fixation: 0.5 % PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [Monomethyl Lys36] antibody at a 1:100 dilution for 1 h at RT. Secondary antibody: Dylight 488 secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [Monomethyl Lys36] is nuclear and chromosomal. Staining: Histone H3 [Monomethyl Lys36] is expressed in green, nuclei and alpha-tubulin are counterstained with DAPI (blue) and Dylight 550 (red).



### Western Blotting

**Image 3.** Western Blot of Rabbit Anti-Histone H3 [Monomethyl Lys36] Antibody. Lane 1: C. elegans embryo lysate. Load: 30 µg per lane. Primary antibody: Histone H3 [Monomethyl Lys36] at 1:1000 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 4 images are available for ABIN5706763.