

Datasheet for ABIN5706769

## anti-Histone 3 antibody (H3K4me3, H3K9ac)



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### 3 Images

#### Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K4me3, H3K9ac
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Dot Blot (DB), Multiplex Assay (MA), Fluorescence Microscopy (FM)

#### Product Details

Purpose:	Histone H3 K4me3/K9ac Antibody
Immunogen:	Immunogen: Anti-Histone H3 K4-Me3/K9-Ac affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide with a methylation surrounding Lysine 4 and an acetylation surrounding Lysine 9 of human Histone H3. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Human, mouse, rat, and C.
Characteristics:	Synonyms: rabbit anti-Histone H3 trimethyl Lys4 Ac Lys9 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3 K4me3K9ac
Purification:	Anti-Histone H3 [Trimethyl Lys4/ac Lys9] was affinity purified from monospecific antiserum by

## Product Details

immunoaffinity chromatography.

Sterility: Sterile filtered

## Target Details

Target: Histone 3 (H3)

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

Background: Histones of the nucleosome build chromatin and undergo various post-translational modifications proven to regulate chromatin condensation and DNA accessibility. Histone H3 methylations on Lysine 4 is modified by Set7/9 enzyme and is associated with transcriptional activation. Acetylated Lysine 9 has been studied in regards to transcriptional activation and histone deposition. Anti-Histone H3 K4-Me3/K9-Ac antibody is ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

UniProt: [Q71DI3](#)

## Application Details

Application Notes: Application Note: Anti-Histone H3 K4-Me3/K9-Ac antibody is tested for dot blot, IF, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15.4 kDa corresponding to the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals.

Western Blot Dilution: 1:1000

IF Microscopy Dilution: 1:10

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 0.46 mg/mL

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

Stabilizer: 30 % Glycerol

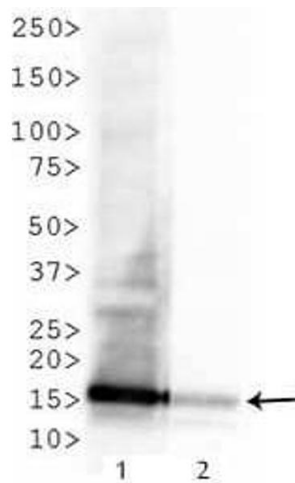
Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

Handling

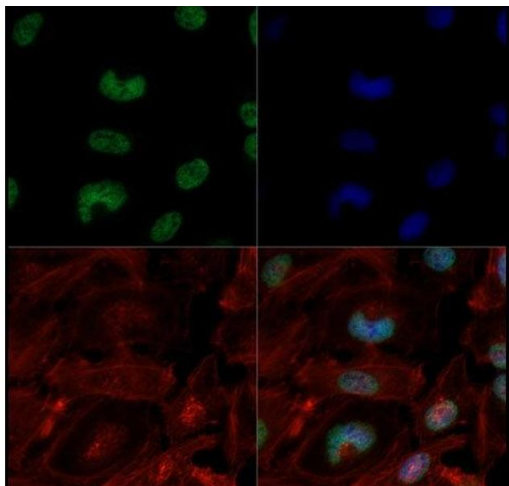
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing 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



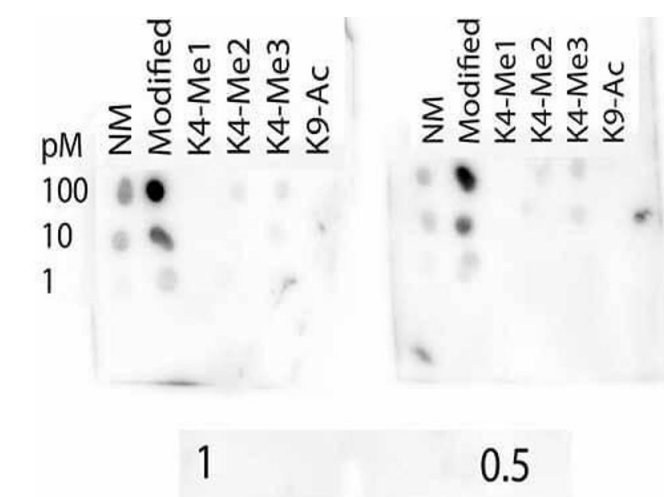
Western Blotting

**Image 1.** Western Blot of Histone H3 K4-Me3/K9-Ac (RABBIT) Antibody. Western Blot analysis against untreated cell extracts. Lane 1: Histone H3 nuclear marker. Lane 2: 3T3 cell lysates. Load: 35 µg per lane. Primary antibody: Histone H3 K4-Me3/K9-Ac antibody at 1.0 µg/mL 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 for Histone H3 K4-Me3/K9-Ac. Other band(s): none.



Fluorescence Microscopy

**Image 2.** Immunofluorescence of Anti-Histone H3 Me3 K4/Ac K9 me1: Histone H3 Trimethyl Lys4/ac Lys9 antibody was tested at 1:10 in HeLa cells with FITC (green). Cells and nuclei were counterstained with DAPI (blue) and DyLight 550 (red). (40X)



**Dot Blot**

**Image 3.** Dot Blot of Rabbit Histone H3 K4-Me3/K9-Ac Antibody. Lane 1: K4/K9 unmodified. Lane 2: K4-Me3/K9-Ac. Lane 3: K4-Me1. Lane 4: K4-Me2. Lane 5: K4-Me3. Lane 6: K9-Ac. Load: 1, 10, and 100 picomoles of peptide. Primary antibody: Histone H3 K4-Me3/K9-Ac (RABBIT) antibody at 1:1000 for 45 min at 4 °C. Secondary antibody: RABBIT IgG (H&L) Secondary Antibody Peroxidase Conjugated Pre-adsorbed at 1:40,000 for 30 min at RT. Block: 5 % BLOTTO 30 minutes at RT.