

Datasheet for ABIN5706774
anti-Histone 3 antibody (H3K4me3)



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5 Images

Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K4me3
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), Fluorescence Microscopy (FM)

Product Details

Purpose:	Histone H3 K4me3 Antibody
Immunogen:	Immunogen: Histone H3 [Trimethyl Lys4] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic trimethylated peptide surrounding Lysine 4 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 trimethyl Lys4 antibody, H3.3B, H3.3AH3F3H3F3B, H3 histone, family 3A, histone H3.3, MGC87783, MGC87782, H3K4me3
Purification:	Anti-Histone H3 [Trimethyl Lys4] 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: H3K4Me3 is a common epigenetic modification that occurs in close proximity to nearly 2/3 of human gene promoters, and seems to balance another modification, H3K27Me3. These two modifications work in tandem to differentiate and/or maintain stem cells. Zygotic cells are activated in the most part by H3K4Me3, whereas, cancer is associated with disrupted associations between K3K4Me3 and ING1. 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

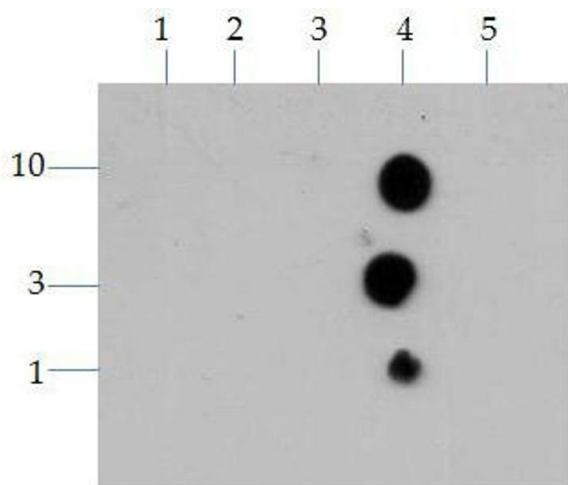
Application Notes: Immunohistochemistry Dilution: 1:500
Application Note: Anti-Histone H3 [Trimethyl Lys4] antibody is tested in Western Blot, Immunofluorescence, Chromatin Immunoprecipitation, and Dot Blot. This antibody is useful for Immunocytochemistry. Specific conditions for reactivity should be 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.
ChIP Dilution: 2-5 µg/million cells
Western Blot Dilution: 1:500
IF Microscopy Dilution: 1:500
Other: Dot Blot 1:1000

Restrictions: For Research Use only

Handling

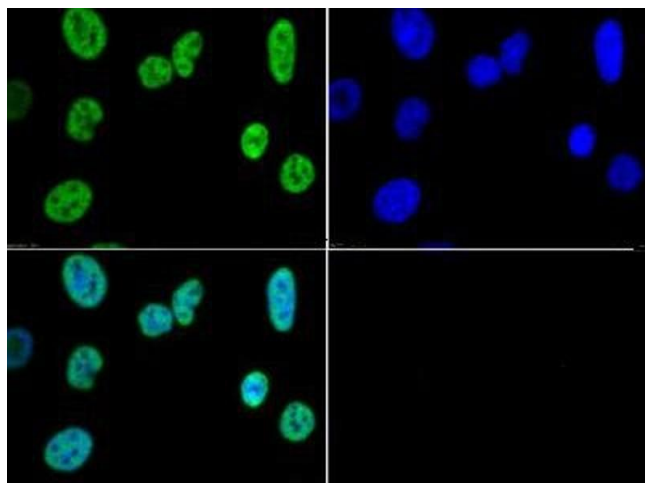
Format:	Liquid
Concentration:	0.7 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 30 % Glycerol Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which 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



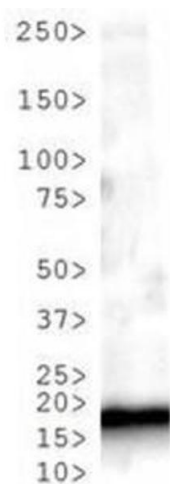
Dot Blot

Image 1. Dot Blot of Rabbit Histone H3 K4me3 Antibody. Lane 1: K4. Lane 2: K4-KMe1. Lane 3: K4-KMe2. Lane 4: K4-KMe3. Lane 5: K23-KMe3. Load: 1, 3, and 10 µg of peptide. Primary antibody: Histone H3 [Trimethyl Lys4] antibody at 1:1000 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 K4/me3 Antibody. Tissue: HeLa cells. Fixation: 0.5 % PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [Trimethyl Lys4] 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 [Trimethyl Lys4] is nuclear and chromosomal. Staining: Histone H3 K4me3 is expressed green and the nuclei are counterstained blue with DAPI.



Western Blotting

Image 3. Western Blot of Rabbit Anti-Histone H3 K4/me3 Antibody. Lane 1: C. elegans embryo nuclear extract. Load: 30 µg per lane. Primary antibody: Histone H3 [Trimethyl Lys4] 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 ABIN5706774.